



00100US1.ST25.txt
SEQUENCE LISTING

11

Vogel, Gabriel
Linda S.

<120> Novel G Protein-Coupled Receptors

<130> 00100US1

<140> 09/801,944

<141> 2001-03-08

<150> 60/187,828

<151> 2000-03-08

<150> 60/187,715

<151> 2000-03-08

<150> 60/187,929

<151> 2000-03-08

<150> 60/187,930

<151> 2000-03-08

<150> 60/187,825

<151> 2000-03-08

<150> 60/187,833

<151> 2000-03-08

<150> 60/187,830

<151> 2000-03-08

<150> 60/187,829

<151> 2000-03-08

<150> 60/187,582

<151> 2000-03-08

<150> 60/187,581

<151> 2000-03-08

<150> 60/187,714

<151> 2000-03-08

<150> 60/189,294

<151> 2000-03-08

<150> 60/187,874

<151> 2000-03-08

<150> 60/187,928

<151> 2000-03-08

<150> 60/188,049

<151> 2000-03-08

<160> 273

<170> PatentIn version 3.0

<210> 1

<211> 642

<212> DNA

<213> Homo sapiens

<400> 1
 ggaatttagt tgggcagaag ggaataaag tgaggatggt taatgggtac aaaaaatagt 60
 taggaaaaaa atgaataaga tctagtatta gatagcacia cagggtgatt gtagtcaata 120
 taatttagtt gtacaattta aaataactaa aagaatataa ctggattggt tgtaacacaa 180
 atgataaacg cttgaggtaa tggatacgat atttaccctg atgtaattat tacacattgc 240
 acgtctgtat tcaaaaatacc ccatctaact cataaatatt tatatctact atctacacaa 300
 aaaattaaaa attaaaaaaa tttttgcatg atgatcttaa ctgaattttt caataataaa 360
 acattgtctg ttttcattaa gttcaattta gcaatttcaa ttatgtttaa ttatttttgc 420
 atcctgaata aaaaatcttc ttatactgca agattttgaa ggcaatctag acttacttct 480
 agaattgtta tgttctacct gttataatca ggcttacaat tcatgtccaa ttaattttca 540
 tatgtaaagt gagttatatt tttcatgaag ttgttcagtt tttcagcccc acttaaaaaa 600
 atgtagaatt gtttcttgct cagttaaact gacctgcttt tt 642

<210> 2
 <211> 660
 <212> DNA
 <213> Homo sapiens

<400> 2
 cagggtgcagc atcgtgtcct cagtgtcctg cccctgctt ccaccgggtg tcgacagctg 60
 cacgggtccac cccacgcctg cctttccatc gttcctcatc agccctgtga tctttcctgt 120
 ggccctgctg tgctggtgcc ctgtgaggtc ctgtggacac aagagactgc acgggccaca 180
 cccccagctg ggtgagtcct ctccctcctg ggtactctgg acagtaaaga aagatggaca 240
 cgtgggctcc gtggagcatg aggtagtcca ggacctcggc ggccacaggt cctgcctccc 300
 tgctttctgt gccctccctc cctttgggtc tctgtccac ctcggtaaac gcttcgttcc 360
 caccctcga agggtaaact gagctccttg gtggtaaagc acccactgcc cctagtccaga 420
 gggtcctcc tctctgatgt catggtgccc tggctgcct ggtagaattt tagctgcttt 480
 ataactggt cctgaaatga accactggga agaaataggg taaaatgaac acacagctgc 540
 cacactgcat cccaaccctg tgtgacctc tcaccgcaga cttttgtggc aagatgacag 600
 catctcagtt tgcttgagaa gcttattttt gccagggtg ttaccaccag gcaggcacca 660

<210> 3
 <211> 436
 <212> DNA
 <213> Homo sapiens

<400> 3
 ctattatttc ttaacatact gcatttttcc gattctctct aagtatctgt ttctgtaact 60
 cctattggac atttacttct ctttcacatt gtctgcttta tctcttaact tttgtgtttt 120
 ctgtctctca ctgctgtatt gtgagttatt acttagctct tccagttaat tctttaagct 180

00100US1.ST25.txt

ttttttgtaa tctctttatc agttcattgt gtttattatt tcagtgacta aatttaattg 240
 ctcaaagttt tatttggctg tttaaaattt gcttttgtct tcatagttat tttgtcctgt 300
 tctctttatc tctttattta tttttgatgc tttcatctgc ttattatttt taagatatatt 360
 atttcttagc ctctttgaga tattctatta tctctgggcc taggatcatt aaatctccca 420
 ctacgtctgt agactc 436

<210> 4
 <211> 707
 <212> DNA
 <213> Homo sapiens

<400> 4
 acttctgggc cacggaaagc cctactgtct aaatgctttt caggccaatt tgaagaagta 60
 attagactta ctggaagctt ctgtgaataa ttctgcaagt acaattatgg acttcccagg 120
 aaatattgcc ttcaatatag aaaagcttgt cagttgattc tgatgagata tatgtaaaat 180
 ttgagatttt gatattagaa tgagtaaaat gatgacatca cgatgtatta aagttggggg 240
 ttatTTTTTg gaattaattg tcatcaggta aaaagccagc tataagtcaa ataaaatata 300
 atcatgttct tccgtcttta gcactcatct tttcttgttc taaatgttga caaatgactg 360
 taaatttaac aagcttatag ataataattg aaaagtcttc taagaactga aaattgataa 420
 acacatggca atggcaggct attgcagtgc aattataaga tgttgtgtgg atgcccctga 480
 agtgcctata aatgaatgtg acttcagtac tactgccaaa ttagtccaat atcccaaaa 540
 tgaactgaaa ataaagtgcc tggaatactg tgtctacagt gtcactgtaa agttactgtc 600
 atgctgtatt actgaaatga tttgctggaa agtaacatgg cacatatatg caccaagaga 660
 gttaaatctc atcttattct atgaaaaatc atgttaacca ttcatga 707

<210> 5
 <211> 529
 <212> DNA
 <213> Homo sapiens

<400> 5
 aacattatta ctttctttta tgaatattct tggcttttcc aaaacaaaac aagctattgg 60
 ttttaataat tatgggtataa tcaaataatg aaactctatg catttgtaa agtaactttt 120
 caaaagaata tcttgtaaca tagaataaca gatcctagtg cattaccac tctttgggct 180
 ttatcgcttt tccaccatca ttatctgcat cactgcctgc aggttttcta cacggccagg 240
 gttggctctt gcctgctcaa tagtcaagtc aaaagaggca ggaaattaac accctctgga 300
 ggcagccttt gaggaatgat ccatgggagg tggagtataa atacctcagc tctgtttcct 360
 ctagagatat aactaaggaa tgggttttac attgtttctc agagtttcct caaggtttta 420
 aacttcaatc acccacaggg ggtagtgggc tttatcatag tatacatccc tttgtggctt 480

00100US1.ST25.txt 529
cccttccttc ttgtctcact tctccattcc aaactaggat ttatttctt

<210> 6
<211> 688
<212> DNA
<213> Homo sapiens

<400> 6
aagtattctt gtcacggaaa gaagaaaagg gttgggtagt tacaggggga caacaatgcc 60
agaactgggg agtgtggact gggatacaag agaatgaggg agctcaggat gagcagaagg 120
gcggggaagc aatattcatt aagcaccttc tatgtgccag tcaataggcc aggcttcaaa 180
ttattacctt gctgaaatct tcacagcagc cctctaatag gtatttatcc ctgattccat 240
atccatgctc tgcttcccct cctattacaa tggctgaaga attcaaacc ctttcaaagg 300
ctagcactgt catttgcct ctagatccca tcccctccat ttttctttt attgaaacat 360
tctcaatggt attcaaacat actctgctct ctctcttatt aaataggcaa atgcaactca 420
tcaagctctt tttctcccct ggctactgcc ccatttctct acttccttc atggcagaac 480
ttctcgaaag agtttttcac aatcacttca tttccacacc tctaactgac ttttgaacac 540
aactagagga ggagtaggag gggacactca ttccaaagtg tccaattaag cccaatcctt 600
taaaagtatt atgttgtcat gatggctggt aagagcatgg tgaaaagata ttagaataag 660
atgtggggaa tcatgaccgt gagacaga 688

<210> 7
<211> 552
<212> DNA
<213> Homo sapiens

<400> 7
aaagaaaaag aaagagtagt gtaacaattc cacttctgga ttaacattgt aaggagactg 60
tggacctgtt acagcagaaa acagatataa taggcaaaaa ttatttttta aaaaatctcc 120
agaaattggt ctaaaaacat acagcagact tttaaaaaac ttgtctgaga aaatgtacta 180
aatctctgta agacaaacaa gagtctgtgg cacgtgagca atgtttgcct cactctaacc 240
tctccctccc aggtcacctt cataaaaagt caactctggg aagggtgccc caaattgaga 300
ttacctgccc cattaatttc caatcaaagg atacagtata tcaccaggaa ggtagccacc 360
agcatttctc agcccctctt actccaagtt gcagaggata aattcctggt gagtatggcc 420
aggaggccac gtggccacct ggccaccact aatagatcag aggattaatc tcacacatgg 480
aaggatgagc atactgggcc cctgattgcc ctgaccccag cttacttata ggatggaagt 540
ttcacatcag ga 552

<210> 8
<211> 684
<212> DNA
<213> Homo sapiens

<400> 8
 agttaacaaa aaaatactac ttaacctctg ctagaacata atgtgatata tttttgacac 60
 ctcttagctt ctttagctga atttcagaaa tgcaaccatt agtattaaga agcaggctact 120
 aaggattttc caaatcattt tgttattctt atcaatattt ctagtattct tttagatccc 180
 ttcactcact ttctctattg ctttccattt cctgaagttt taaataaaaat ttcccttctg 240
 tttgtcttgt agggaaaaatc atcatgctta ccacatagaa tgtgagttgt aggagagaca 300
 caatgggaga catcggttaa gggacaaaag acattaacat tttaggtgat tgtgagttca 360
 taatttttcc agaacacaag cattgcatgg ctactctaata atactagatt attaaaaatag 420
 atatatcttt gccctacctg ataaacacta tttgtataag tgaatatatt tttaatatta 480
 atccaatata tttcataaga aatatttgat ttgcaaagta atctgagcat tacgatgatt 540
 ccctatctaa atactggcat ggtgaaaatg aggacaaatc taccctttct ctaatgtagt 600
 tacaggcaag ctatactcat ataataaaca tagaacgtac aatcaaaacc aatgcatgag 660
 tgtaggatgc aactaaagtc aaga 684

<210> 9
 <211> 641
 <212> DNA
 <213> Homo sapiens

<400> 9
 atcattttga taaccagtct gatctgagaa aattaaacca tgtcattcaa aacatgtcct 60
 ccccaaattt aagaaacatt aggtcaatct cctgggttaa taatagctgt atgttttagt 120
 agattttgaa atattatgta atcatttgaa attataagct tctggccac aacttgactg 180
 acaaatacct gtttcattat ttttaactag ctttggttgg actacatata tccaaagaca 240
 aaagaaagat aaaagttgaa ataatccaac agttatccta cacaaaagta tgacaaaatt 300
 accgttgcag aaattgaact catcaagcct gaacttttga ctttgaacaa ttacatggaa 360
 gagtgccacc atggtgaact gtcagacctg tacagcatca cagccaactc tatacacaaa 420
 caagggtggg ctgtattctg accattattg gaataaatta tcctgattac ctaatgtctc 480
 ttcacaccca ctaaattatt tattattatt atatttttac actgccatca aattaaagtt 540
 gctaaaacac aactttgtc atgttcaaaa tttctatagt gtgcctcaac aatcactaac 600
 taatcctcag aattaattac ctactaattt gtttttgaca t 641

<210> 10
 <211> 520
 <212> DNA
 <213> Homo sapiens

<400> 10
 tctagaatct atacatacta tgtccaatcc ctgttccaca agtagttatt tatatgtgcg 60
 aaggttcata ctctgattt tccttttgct ccagggcaaa gaaaagatac tgaaatacaa 120

```

ggtagactta taccagccca gtagtaagcc agtgagggct accacagttt ggaagaagca 180
gggtgaaact ttacatgag attgggggga aaaaccatac tgaataataa agggttttta 240
ctgagattga aagatagtgc ttgagaagc acacaaaaga ttcaaatgg gcgtataaag 300
aatgacctgt gctgaaaaac acatttttgc gctacaagg acccaattga ctagatgaga 360
atttgtgtgg aaaaggagtt gataaggcag gctggcacat tgcagccaat ctgtgaaagg 420
cttttcatgt cctgtgaaca ggaaatcaca taccacaaga gtggtctagg aatctgtgtc 480
tggaaccct acagtggggc agactgaaga gggaataacg 520

```

```

<210> 11
<211> 668
<212> DNA
<213> Homo sapiens

```

```

<400> 11
atgggcaccg ctctctttaa agtacacttt cctgactcag ctgtcctctt ttcctcctcc 60
attcccacca attctgggct acaggctttt cctctactct cccacagcat cctccctgag 120
ccctcaatca aagcacctac aatactgccc tcataggag gtgctatctt tctgtcttcc 180
cctgagcgct gggaccatt gcatttcacc ctttatccc caaggcctag cacatgtcta 240
gcacaacaca gcaattaaat aaacctgtg gaataaatta attgtggaat agcctggttt 300
ccatggatgg ttatacaggt tgtgcactgc acaaccatgt gcaacattcc tggaaaaaga 360
cagaaattta ttgattggtt gggggttttg aatagccaag gaaaactatt tgacattgc 420
atgccctcta cctgggaaaa tcacataccc taacaacttc ttaggcctta ctgcatggtc 480
acatggggtg acattcatc agtttctcca gctctctagt ctgccacaa aggtgatatt 540
gttcaaagg gcaatcttcc ctgccttcc accagtctat tcttaacttg acccaagtaa 600
tctctttcac tgcttaccaa agatatttca gcttcagcta tctgtttgc agaattgtga 660
cgtattcc 668

```

```

<210> 12
<211> 625
<212> DNA
<213> Homo sapiens

```

```

<400> 12
tcaatagcaa taaagcacac caagcacaca gatctcgact ttggaatgcc atttctccat 60
cttaaaagac aaaaacagga catcttagac aaatggccaa ctccagggtg gttggggcaa 120
ggaaagaaga cgtgcttggt cacatcttgg tacatcaggt ttaggaagct gtcactggtc 180
aaatctggga caacttgaac atcaaaataa ataatcattg taatggatta taactcatcg 240
atgtaagtct ctaagtacac acttatatca atacatatgt acatatacac atacatacat 300
ctttacatac tactgaatgg caactaataa tggcatttgg caaactgtta tgctaacaat 360

```

00100US1.ST25.txt

taactcaggc aagaaacatc aatggaggct aaaactggta gataaaattg ggatgagtag	420
attttacaca gtctccaagt gactttccac aaaataccca ttattacaaa ggaaaagata	480
gataggtttg cagcagaaaa aaaatgtca gacatcatct taactagggg atcagtgtta	540
acttctccag catgagacaa gtagacaaac aactgccatc agagaggatg aagtaagaca	600
cagcatcact tctgtgaaat tctgg	625

<210> 13
 <211> 616
 <212> DNA
 <213> Homo sapiens

<400> 13	60
tccgatgatg ttaacaccat attattttta aagaacatga agattacata agagtaggca	
tttgccattt tgtattttta agagtctgct cagctcttaa caaggaaggg cctatgcaaa	120
atgagaaata aagtgaaaaa cgatttgctt gtcagtctga aataacttag gtgtcaaaaa	180
caagtaactt tcacctcct tcaacctgct ctcttgccat ttagcaatct aaaataatta	240
tccaatgtat ggttgcactc caaaaatcat gttaaacttg agatattctg aattttgtgt	300
acaatttttg gtagagggtg agagatagag aaaaatctta cattgtgttc agtgaattcc	360
cagacctcgg gggtaaaata agtgcaggaa gaatctcatc aggatatctc gggcaatttt	420
tcattagtac gcatgacaag ctgtttcacc acaggctatt gtttttatgg aaagttcaaa	480
tatagcagga tggatgtat ggtgtgatat taacacatat gaacacaatt attacctatt	540
ttaggtatat acgacctttg tcacctagaa acattgatac tcttcattat gatgtacttt	600
tatagaataa gataaa	616

<210> 14
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 14	60
ggcctctctg aagggaagc aagcttgcac ctagacttct ttctaaagat aacctagaca	
ataatgaata cagctgccac cagcctccta tgcactagag gcattattct aggagtttcc	120
gtgtattaag cttatcctga aattagttcc ttcttatgac tgagaggaga agtattacat	180
attgatttca ttgttagaaa tgggaaaatt tttaacaagt gtatttagag ggcaaccaca	240
ttttctgctc tgcaacctgc ttctccccct tcacgtcagg acatctagat gaaccctc	300
ttcggaaagg ctgcagagaa acatgtccta cagacctact atcatctggt taacaactcc	360
cagtggacgg accaaaattc cagacgttcc ccaactttct tccactgcac ggatgctgcc	420
acacatgctc atatacctct gaaccttcca gtgactacgg cacagcgaca gctgagttcc	480
tgggcgcaga accactgggg caggttttgg cagctatgag caaatcactg tgcacaaagg	540
caatcccagt ttacacttcc acagagagga actgaataca ctgcccaccc tcacctgac	599

<210> 15
 <211> 617
 <212> DNA
 <213> Homo sapiens

<400> 15
 aatactagat tccttcaggg actttttaga acaaggacaa gaataatcct ttctcgacaa 60
 agtaaggagt gatctatctc aaggcagaag catattctcc tacaccagga ggaatttcca 120
 ttaacataag caatgcccc aaggatgcttg ttatcatttt tattcaatgt tgttttctgt 180
 gttctggcca atattatgac ttgagataca agtgagaaa atgactaaag gaattcatga 240
 gacaagatga tcactattca ggagatggta tgattgtcta tctagaaaa aagaaatgac 300
 tccatcgtaa ttctgggaat ttactaacag tggctgggtc ctggacaaac atttaaaaa 360
 tcaatcgttt ccttgtgtgg cagcaataac catttagaaa atggagtaaa tgcggagtta 420
 aggggctgtg aatatataac agcaagaact cctgatctgc cgtcccgaca agtcgcctcc 480
 ggagtggaca cgggccaggg aaggcaggtc tctggagga aggtagagag aagatacggg 540
 ggatctgccc cttccccagg aagctccccg agaaagggcc acaactgttt actccagcag 600
 gctctggggg gattcag 617

<210> 16
 <211> 518
 <212> DNA
 <213> Homo sapiens

<400> 16
 gaaaaccttt gactactttc tctgtctcac ggtcatgatt ccccatctt tattctaata 60
 tcttttcacc atgctcttaa cagccatcat gacaacataa tacttttaaa ggattgggct 120
 taattggaca ctttggaatg agtgtcccct cctactcctc ctctagtgt gttcaaaagt 180
 cagtttagagg tgtggaaatg aagtgtgtgt gaaaaactct ttcgagaagt tctgccatga 240
 aaggaagtag agaaatgggg cagtagccaa gggagaaaa gagcttgatg agttgcattt 300
 gcctatttaa tagaagagag agcagagtat gtttgaatac cattgagaat gtttcaataa 360
 aaagaaaaat ggaggggatg ggtcttagag gacaaatgac agtgctagcc ttgaaaggg 420
 gtttgaattc ttcagccatt gtaataggag gggaagcaga gcatggatat ggaatcaggg 480
 ataaatacct attagagggc tgctgtgaag atttcagc 518

<210> 17
 <211> 375
 <212> DNA
 <213> Homo sapiens

<400> 17
 acagggcatc ctgccttcc acccacttta aaacagcctg caaggcagtg tgtgacctat 60
 ggctttaact ctgatgagga ggattcctca tggcatgggt tgctgagaac cctgaatcac 120

00100US1.ST25.txt

aaggtataaa gcagggaccg aaggactgtg cccactgcag caaccccccg ctgggttttaa 180
 tgctctcctg ttgccaccct gaaattttta aagacttttt acggggtctt gctctgtcat 240
 ctaggctgga gtgcagtgc atgatgtctt atacctcatc tggctgagac tcactagaga 300
 aggtcactag ttagaactag agagggggct gggcacagtg gctcatgccca gcactttggg 360
 aggctgaggc aggag 375

<210> 18
 <211> 687
 <212> DNA
 <213> Homo sapiens

<400> 18
 cttgtagcaa tataaagcct taaatttttt ttctgtagga aaatatcaca cagatggcta 60
 attatatgcc atataagcc attaaggaag aaaggatggc aaatgctcct tttagtgaga 120
 cttctttgtt atgagatctg ggtataaaaa tgtgcagggtg tgtaaacaga ggaaggagaa 180
 ttctgattaa gtccctcaag aattgaagaa aatgggggtga gagacagaga acaactgtga 240
 gctaggaaaag ctcaaggagt aaacctaaca agaaagtta agcaatggct acttttatac 300
 agttttatctt agtaagtga aataacttaa atgaagttat ttataaagtt tatttgagtt 360
 gttttctgat aattaaatag catgagaaat gggaggaatt tgagatattg cagttagaaa 420
 gggagcagtg caccaaactt attcttaact taaaagtta tactcttacc taaggtaagt 480
 cctaagtga caccaactta aagctgaatt agacaggaat alycaatga atagcaatg 540
 actattcaca atctactcag cataaaacag gttcattaag aaaggttctg caataacact 600
 ctatgtaaga gtttatggaa caattaatag aataaaattg atgtacattt tatgtactac 660
 tgcattttac atattctaag gcacgag 687

<210> 19
 <211> 546
 <212> DNA
 <213> Homo sapiens

<400> 19
 cccttgagca cacacagggc gatacttgcc acaggtgggg actgaaggct tctttcttgg 60
 cttatagttt ggaagcaatg ggagttggga gctccaaatc attcatggga caaatatcct 120
 gtcttatatt gcttaaaaaa aaatcctatc taatttttaa gacaggggtg tttgctctta 180
 aagcactttg catttaattg tgtaattac agaaattttc aatgctctct gaagaggtaa 240
 ttgatattaa ccatggtaat tctaatagct aacacatatt gggcatacgg tttttcacat 300
 gtctaacacag tccatgtttc cttaaaaatg cagattgcag ggccccacac tggctgggga 360
 attcgcaatt ccagtaacaa cttcagatga tttcatgat ctttcaagtt cgggggaaat 420
 ggagctcggt ttccactaga ttaaagcagt attccactgt atgcgttctc aggcctataa 480

00100US1.ST25.txt

```

agaatcaaca ctctcaata agtaaacatt cacttaaaca tatccagggtg gatccaatga 540
tctacc 546

<210> 20
<211> 547
<212> DNA
<213> Homo sapiens

<400> 20
ctgctctata taaagatata gtccatgtat atggctgagt cttttatagt ccaaaatgta 60
tttttctgtg tactatggtt tattaacttg acttattttt cttctttcag atttaaaaaa 120
tgttactaa ttaaagtaac ttccaagta cctaccaatg acattaatct tcctcttttt 180
gtcgtttgtt ctttttacct ccaaactcta ttaatacagc aactttttta tatgattgtc 240
tacttttcag agtacttctt aacaacatag caaatgccaa aatgttaatg gaagtattaa 300
tgaaaacatg caaaaaatat ttctttatga ttctgataat tattgaaatt gccttagatt 360
aaacatgaat aaatttaatt attatatatg tattcaaata gttggatata tagtcctgag 420
aaagaatcct tctactacata tgttataaaa atgggaatga acacattacc taagaagtct 480
gcactagaaa taataagata ctttttcatt cttgacatct ttcttctttt tgaaccaagt 540
atctgta 547

<210> 21
<211> 731
<212> DNA
<213> Homo sapiens

<400> 21
tatcatgctg ccgcttccaa tgggcatctg ttccaccatg ttgtgggcat tcattggagc 60
tttgttgctt ctactgtta aacctcctg tataattctg ggtgccagc agaaaacagt 120
atgttacctt aaaatagggc aattgaagga tctttcaaga agggacaagt tgtaaagggtg 180
ggcagcacia agggaaacca acaaaaaatg aagacctggt gggacagggg cagagtgact 240
ggatgctgga gagacccaaa gctgcaaagg aaaggagcaa ggggaacaat accccaccct 300
ctccctccc acctcccacc tcccacctc attcttctcc agtgggtgccg cccattgggc 360
aaaccagcc agaagccagg aagcatgaga gttagctga tgcagcccat acagatcaga 420
ctcctggact tcagagtggg ggagggtgag agggatgaag tctggaggca ccaattggga 480
aggccatcca gaatgctcct attctgtttg ggagctggg atgggaatgt cccttctga 540
ggggtattta tggaataaat caaatcaaat cacagaaatc aatcacaga aatcaaagct 600
ggagattctc tctccctcta cttgctggca gccaggatgt gggctcatga cctaaactca 660
gtcattcaga aattcccccg gggaatgcag tcttacagga gtagctcaag gccaggcagt 720
ggctcacacc t 731

```

<210> 22
 <211> 462
 <212> DNA
 <213> Homo sapiens

<400> 22
 cccatctgtc tgaatgcctc ctgtagtggg ggactcactc cctaataaat caatccctct 60
 tgtctttgga aaggtcttcc aactgaactg gactccaaca tccagtgaag ctctccact 120
 catcctttta gctggaccct ctggggacca agacagcaga ccagctgcct cttctacagg 180
 gcagccctcc aaatggctgg ggccactgtc ttctctgcac tagaagacct ttctatggta 240
 gtatccttcc acataagcta tgacttctat tcccaggaaa gcctgatttg tctcctctaa 300
 atgcacttcc acttatctgt gaccctctta caatgaaatc agagagagat aaccctgac 360
 ttctaactca gagcaagcaa gctcccagggt cttcagaggc cctgcagggc acacagatga 420
 cagcggatga ccagagggca catgccttgt ctaaagggga tg 462

<210> 23
 <211> 692
 <212> DNA
 <213> Homo sapiens

<400> 23
 tttcaccact atgtagccta aagttattcc gtcattccatg actatcctgt ctaaagagtc 60
 tgaagatctt tatttggtag ctatggcttc agctagtcca ttgctaagt tacctagagt 120
 ggttgacaga tttctaatta tacgttcatg agaggttact cccactatt gcaagagact 180
 tctgccaac ataggccaaa attcatctcc ttggtttgca ggtacagttt gtctaatacct 240
 ggaaaataat ttcaatgaac tacttcagcg ttcagaaaca ttggagtatt aaatagaaag 300
 aggaagagcc acataaccta atagacaatt acctctcata tgccagtggg caacacattc 360
 ataagcccat gtgtgcttga tccagggacc acacagggc cctgatggat tctgaaattt 420
 aaggcttttg attactggta acagagacat gttaaagtac atgtcttcag tcttgagtag 480
 agtgtaatca gtctgatttc tttttttttt taatgagaca aacatcaggt aaagaccttg 540
 acaagaagga agagaaatcc cgagattcta taatcataat aatcgaattg taattgctag 600
 ttttaagtagt ctttcaaaaa tacatctcat tctgacagg ataaaacaag ttttataaaa 660
 tatattatat tctgggttca ctagggaac ac 692

<210> 24
 <211> 669
 <212> DNA
 <213> Homo sapiens

<400> 24
 ccttctcat ctttgctgct ctctgctgac aatttaaaaa cccgacatgt gttaactctc 60
 tccttgcttt ccaaccacc cacttatcac ctcagtcca tgctccagg tggcaagcag 120
 agaggactgt ggtttgatga gttcattcat gccgtggctt taattactga taagagcttg 180

00100US1.ST25.txt

attatacaca ttctcaaagg cattggaaa tttaaagaaa gtccttttag gtagcagtcc 240
 atgacaaatg cagttcatga aatctgtgtc cttttcattc ccttctgagt aattcctctc 300
 tgtctctatc aaagccttgg atactccatg gtttactagg cagaaactta tccatccaac 360
 acagccacat ggatacagct ttgtgctttt agacaataac cacttgagaa aacctgacct 420
 tttccccac tcttcattca gcttctgtcc tgctgaaaac aagaggacat cctgccacat 480
 tgtcatctgc tctgccttac tcttgagaag tctagtggg aaaacaggcc ctataaagag 540
 agacactgca atgccatggg gtgaggacaa taaaagtgat ggcagcagag cactggagag 600
 cagaggtggg gtcaccaact gcccaaatgg cactgtcccc tcagaactct tgcatttgct 660
 ttttaacgca 669

<210> 25
 <211> 654
 <212> DNA
 <213> Homo sapiens

<400> 25
 aatttatgac attatgacag ttgttcatta aagataacat tccaaagaga aatgggcatg 60
 ggcataatatt taccactccc aaggaaatag ctaataaagt aatagagtac agattaaaat 120
 aataaaatcc aaatttaatc catcacattg acaatgatta aaattaaatt taaagcagtg 180
 ttgggaagaa tacagtgagc tgggtgtccat acacactgtg atgagagtgt agaaatctta 240
 cagtccttacc agaaagcaca tgtatcaaac actttcaaaa tgttcatact tcctaacctt 300
 gaaattccac ttttaagaat ttctcctaag aatatactct tgtttaaaaa tatttacata 360
 caaagatggt gatttttagta ttattttgaa agcaaaataa cccacagaat ctcaagtata 420
 tgatccaaac aatggaatat cttatagcca ttaatttttag agatgaatat ttaataattt 480
 aggaaaatac ctatgatact ttaaatttta aaaagttaca tagcagaaga ggccatattt 540
 caatttttgc cttggaaaaa tatggtatca ctacagaaat gttgtagtgt tatcgctgac 600
 aacactagtt atctaggata aagggatatt ctcatcttca tttcaccttt agta 654

<210> 26
 <211> 687
 <212> DNA
 <213> Homo sapiens

<400> 26
 ccaatatttg atcttttcta tctttaaaaa tggcagtttc atgtgtcttg atctaaaatc 60
 ttaaaatcaa tctttcaatt ggataagagg cagggaaatt agcttggaag gtaaatctat 120
 tatccagagg caaaatttca tgggctttga taaaggtgga tatttttcga taaggaggaa 180
 agagtaaatt ttactaacat actttggctt ttgttcagtt ttcttaacct ctattttcgc 240
 tttattattt atttttttgt tttactcttg ggaaagcaaa ttatttgttt tctcacatct 300

00100US1.ST25.txt

```

tttggggtcc aattttgatg attctgatct tttttagttg cttgacctgt agaccctcta 360
cagaacattg cagggcctct tctcagagga gcagcgggtga tgagcttagt ttcctaggct 420
gggactgttg cgctggactt gacaggtgaa ctgaaaattg cagggataag tacacctatt 480
gagaacaaac atcccatctc tttatcaaag ctcttcattg gctttggaaa actgctgtag 540
gcctaaggaa actaaacttt ctagggatat tctaggtttt aaacatatga gaaagagaaa 600
gacgtcgggtt cttatttaag agagtttatg agaccttata cttgaaatag tcaaatttat 660
aatgacata aggctgtatg tgtagtt 687

```

<210> 27
 <211> 622
 <212> DNA
 <213> Homo sapiens

```

<400> 27
ataaaaataca gatctgattg tgtcactctc ctgcttaata tttgtagttg accctccac 60
tgctctcatg aaagttcata atccttactg tggttgtaaa tgccctttta tgatctgtcc 120
cttgcccatg tgtgtacact catcttgtgc tactctcttt cttcatcaat atgctccacc 180
atactgtcat ctttctgctt atttttttta aaaaagtatg gaacatctct tcccccttat 240
gtgtcttatg caacctgtca gacaaaacca catgttatat tttctcaaca cacaatttta 300
tttcagggtct ctgtgccctt tacaaatcta ctaatcttct tgtctggagt gttctttctt 360
ctcctggcca aattctaata atttgtcaag agtgcaacag catcatttct tctgtgactc 420
aattctccaa gcatcgtatc ctctgtgttc ctatagcact acattggatc ggtccataac 480
aattctgtca gtgtattata agaacttatt tacagggttt gtctcttcta ctatggcgtg 540
agccttttag tcatatgaat tgtgattttg tataatttagc gcctaccatg gtgcttaatt 600
cgtggttaggt gctcggtaaa tg 622

```

<210> 28
 <211> 684
 <212> DNA
 <213> Homo sapiens

```

<400> 28
ctattggttt aataaattat ggtataatca aataatgaaa ctctatgcat ttgttaaagt 60
aacttttcaa aagaatatct tgtaacatag aataacagat cctagtgcac taccactct 120
ttgggcctta tcgcttttcc accatcatta tctgcatcac tgctgcagg tttctacac 180
ggccagggtt ggtctctgcc tgctcaatag tcaagtcaaa agaggcagga aattaacacc 240
ctctggaggc agcctttgag gaatgatcca tgggagggtg agtataaata cctcagctct 300
gtttcctcta gagatataac taaggaatgg gttttacatt gtttctcaga gtttctcaa 360
ggttttaaac ttcaatcacc cacaggggta gtgggcttta tcatagtata catcctttgt 420
ggcttccctt cttcttctgc tcacttctcc attccaaact aggatttatt tcttttcct 480

```

00100US1.ST25.txt

aaaacaaaac aaaatgttta acctgaaacc cttacaaaac acgtaaaatt tatattttaa 540
 aaatctaaat atttgaggag agaacgaaac ctaagtatat gccaggtat aacacgattg 600
 gtggagatag ctttaaaaaa gttcctgaaa aatttagttt ttaaaagggt accctagtag 660
 aaggtgactt aactgcctaa ttcc 684

<210> 29
 <211> 731
 <212> DNA
 <213> Homo sapiens

<400> 29
 ctggcttctg agagcctcct ggtaggaag gaagttgttc tctttccact gcaagcttag 60
 aaagccttcc aagttctctc cttctgcagc ataaagagac aataactcag aggaaggat 120
 cccaggagt ttccagacag ctgcacagat ttaagtgcag aaatctgagc agaggtatag 180
 tcttggcatt tacatgaaca cctttcagta gcaggaagaa taaatggaaa gagagctaca 240
 gaaataccag gggcgaagtc ttcattctgaa agtccaatct ttgatcaaga gctggttaga 300
 agtctgagaa tttgtatcag cagtgttct aggtgtctg gtctgagtaa ttgggatcag 360
 agcaacagct gatatcatgc ttaccttggt ccaggctccc ttctaagggc ttcctggaca 420
 cctgctctgt tcagtcctca cagcaatcac atgaggtatg ttctgttgtt gtctccttgt 480
 gcggatgaag aactagga cagagaaaac tggccacagg tgtacagctg gggaggccag 540
 agccagaatt cagacctggg gtgtcttggc tgatgtgagc tagtgtgggc cagcatggga 600
 cacagaggga ggattagctg gagaagcagg acagagggca agagagacga gatctccgac 660
 agtgcctggg cagagacact ttcctgagcc atgattaaac ctgattatgg gacatgtttt 720
 agcctgtcag a 731

<210> 30
 <211> 642
 <212> DNA
 <213> Homo sapiens

<400> 30
 acagtgagca gagatggagt cacacctttt cacaaaattt aacaatcatc atcgatatgc 60
 acagccttca tgtgtagtgt atgctcccag ctacagctgt agttacccaa tctcaaagca 120
 agtaaacagc aagattccac actagctctt aactggccaa gctatatattc tataactaga 180
 attgctatit gtggatttcc ataagttata ataacacgat aagaccactt tatccatgta 240
 ttctagtgc tttttcttcc tatagcaaaa agaaaaatac atctttcacc atttacaagt 300
 acaaatttca aggagaaatt ttaaaaggag agtaacaaac tgcctctgagt tgcagcaaga 360
 ctcctgagag ttccatttcc tgggcctct gtgcctgtt tttggcattg aaccaggaa 420
 tcttttctaa agcacacaga aatcttgcaa aagaggccat ttctagttag gcttttgtcc 480

00100US1.ST25.txt
aactgtctag ttaaataaat taaattctta gattacaaaa tgtgcttcaa aggtttaaca 540
aattgaaatg tccttaagta tttcaaataa attaaggaag aattcccatt cccatagtct 600
tctactttcc tcttcacac ctatgatgaa tgcctgaaa ag 642

<210> 31
<211> 592
<212> DNA
<213> Homo sapiens

<400> 31
cccttttttc tgctttcagt ttgatttgat tacaccttac aggcttggtg tgataagttt 60
aaaacatatt gaaggtttat gtacttataa aaacctcatc attccctaaa gaaaaaaaaat 120
ctcaatttgg tttagtgtca ttgtagtctt gctttctaca tcttactaat gtctcattta 180
tttattcatt ttgctctgtc acatttagaa tgattttgat gggcaaaaat catggtagt 240
acaaacagcc ctttaaaact attgtttatac ttgtttcagt ggattctggt agaggcttta 300
aggtaattat ttcttttaaag cattgtgtaa atatacctcc tactgtagtg cccttgggaa 360
caggcaaaaat tcagaactgg cctgctagca gtcttaccag ggttataaaa gtaagattat 420
tatatatataa acagcattaa ctcaatgcgt ggtgtgtgtc agctggcaaa caacctcgct 480
ccccaagctg ctaaattcgt ggtcttatga atgtctccat tgctgtgttt gctgtaacaa 540
gaagtgggag ggtgttcccc agtagccttg actgtttacc aatgcacact cc 592

<210> 32
<211> 485
<212> DNA
<213> Homo sapiens

<400> 32
ttatttgggt ttaatttcat aggcctcaaag gtctaagggt cccccctgtt gcggttgctt 60
gtggttctct ttgctcctgt ctgccctctt gggccaata cctagtattg tgcttaggat 120
tcacaaacgc aacaaatact tactgagcac ctactctgtg ccagggtgctg tgctatatgc 180
tgagaaaaca atgttaaaca agatggataa ggttttcttc cttatggtgt ccatagtcta 240
gtggcaaaga caggtaataa tgactcagtg tattctacta aggacaagca tatcgtgcta 300
agaaaacctg tgtgggaatg ggtcaggga ggtatccttg gagtagcccc gtttgaactg 360
ggatctgaag actgagagtt atctaagtgg ggagagcatt gcaggcaggg ggatcagcat 420
gtgcaagggt tctcagaaaag gagggagaac aatgtgtaag aaatatcact gtagttgcaa 480
cccag 485

<210> 33
<211> 695
<212> DNA
<213> Homo sapiens

<400> 33

00100US1.ST25.txt

```

tcattattat aagaattata agaattctga aatattagcc ttaaaataac caagttaata 60
aagcttaaac tttttatgga attatccatt tctgttttga aaaatactga actcttttca 120
aatactattg cttgttcact taacaatgat tacttgaaca tagttcagct aaagctttta 180
tgatattcac taatctagca tttattttct cattgctttc caccatcact aaagtaatta 240
ctacatgttc accaactaat tattctgatg gtgcattaag aattgatctt taccttaata 300
ttttatggta tcaagtgttt ttgcattcat caagaatatt ccattttgct tatattttta 360
tgatgagctc tagaatatca tcactaacat atctagcaaa ttataaatat gtcatttttt 420
aggtaaaata ttttaagagta tgtagtgcta tatatttagt tattttaaat caaatactta 480
atgtttatac tttttaattg atgtacaatt ttcaattctt tagaatgcgc ttatgaaata 540
attgccctta ttatagtttt ataacaactt taatatatct tctgtatcta tagcagatga 600
tttataaaaa tgcttttctt tattaataac tgtctctatc tcaagttctt catagtgagc 660
tattttttct ttttgatttc ctgtagagat acata 695

```

<210> 34
 <211> 655
 <212> DNA
 <213> Homo sapiens

```

<400> 34
aggcagtaat tccagtaatg tgatgaagta gcaagagata agtaagtcca ggtcagtgaa 60
gacttctgtg gggtgacata tgaactgagg aaatgccac ttttggactt tcagttaaga 120
caaaaataaa cttacctctt ttttttttcc caggtatctg ttactttccc tattttgcaa 180
tacttaatgg atacatacaa tctgtcaact cttctctctg gacctgcgca taaactgctc 240
catctgcttg aaacaatctt tccctggta accgcctacc cactgccacc ttggagaaca 300
gctactcata gtcacctca gattatatcg ttttctcacc catctcatcc tcttccttcc 360
cgtttcacca cctcccttca accttgggtg gctttgcca tctgtctgct tgacaggaca 420
cccctattgt tacctttgac tggactatta gatgacatct cagttactta ccttttatgt 480
gctagaatta atttcctagc tggagttgtc cccatgacct gaagctgagt gcctgctcta 540
ccatgcaaga agctctattg ccgaggccta ggctgtttt gggggcttct ctagccaatg 600
tgcaatgtcc cattcctagt tgcattctga aatataacat ctgagttcac agtat 655

```

<210> 35
 <211> 506
 <212> DNA
 <213> Homo sapiens

```

<400> 35
tttcgaaaaa acgtatatga aagatttaaa atatgagtta tgatgtcttt ttttatccca 60
aatctgcttt aattatcatc ctatgagaac atttttggac atgcatgaac atacaagtgt 120
tctatgtacc cttccacagg aactattaga ggtaagcat cattcagcca aaaatgacta 180

```

00100US1.ST25.txt

gacaaacttc aatgagagga ctgatgtgaa catttaaata tatatcaaga tagatctaag 240
gttaaaaaatt attgagaata aaattggaag aacaatgtat caacgttatg ctattcaaaa 300
ctagaaataa tgcattgtaa caatgggaga agaagggaag gtaaaaaaga caattgtaa 360
agcacgttat tggatagcaa atgtatggga agtaaagta acacattaaa ctgggcaaac 420
cagcagataa gaagttacat aagaatatag atggctaag acatttatac gtataaatag 480
gccttaaac aaatattaaa accttt 506

<210> 36
<211> 645
<212> DNA
<213> Homo sapiens

<400> 36
ggccgccag gtcagggaac cgtggtctaa gtcccagctt tattcttagt tggaggagtg 60
gccttaggta tgcacaggg ccccttaggc cttttggttg tcttttcat aaaaggcagc 120
ttgtcttgc tctgacaatc atctttgaga gtgttagact taaatgagat cctgcagtag 180
ttttcaccct ccacaggtag caaatcttt actctaaaca aattgtactt gattccttga 240
tgctaaaaca aaagaaaaac ctggaatttt attactacaa acatattcta taagccctca 300
tgtatatatt ttacttttct tggagccct cagtaagaaa aacaaaacag cttttaatac 360
aatgttttca caatggcaaa gttcaaacac agacaaagg agaggcaatg gtatgataaa 420
ggccaggca ttcacaccc aattcaata attaccaatt cataatcaac ccaatttcag 480
ctctccacct cacacctcac tttttaaaag acagatcctc cctcattaga ttagttcatt 540
cacaaatatt ttatatgatc ttgaaaatat aagtgtcctt ttaatcattg tgatatcaaa 600
ttcaaaatta acattaattc tcaataaat agggctattt tgatg 645

<210> 37
<211> 563
<212> DNA
<213> Homo sapiens

<400> 37
tttgaaagta catgtataac taatctacat ctgcatcaa ataactacca cttcttcctt 60
cctgtttata tcattactgc cttttatttc atttatccac atgctataat cactcaatac 120
tttgttacta ttattgtaa cagttatctt tcagatcagt taagaaaaat aaaacttaat 180
tttaccttaa tatagtactt ttctaagct cttcctttt tatgcagttc ttttgacat 240
ttctcatagg gcaggtcagc tggcaatgaa ttattccagt tttgtttgtc agaaaatc 300
cttatttctt tgaatttgaa ggataatttt gctgaatgca gaataatagt ttggtagctt 360
ttttgttgca acacttcagc tattctcctt tctttgtgtt tgcattggtt ctgaagagaa 420
agataatgta attcttatcc tttttcctct atggataagg tgttggttt tccccctc 480

00100US1.ST25.txt

tagcttcttt caagattttc tcttctcttt ggttttttgc agtttaata tgatatgcct	540
gggtggagat ttggatttat tat	563
<210> 38	
<211> 604	
<212> DNA	
<213> Homo sapiens	
<400> 38	
acttctaact gctggcttta atttaattta atttaattac agcattttcc acacatgccc	60
acaggctctt ggtaatagtt gcatttttaa taaatcta atataataat gactttgttt	120
ttaattttcc actgagagtt ggatcctgag ttgaacacag agctccagac aggggcgtct	180
ggttcactcc atgtgattgg atttcaggga accaaggggc tcctaattgg aaaatagctg	240
tgctttcacc cctatcccc acacacctgt gtttaatgtc ctcagcaagc atcccatagg	300
acatgaaatg accgcttggt tcagtcaaaa tgatcaaacc agttgagcag gcattcctca	360
ggctggactg tgaaaggaaa atggaggtaa gcgagcaatg cctggccaag accattatac	420
aaagagactc tatggacagc actctgggtg tggcctttac ggagtgacct actgctctct	480
gcctttatcc acaagtcact gggccaactt agaactgtaa tcaaacatag ttcaaccaa	540
ggatgaattt tatgactact gatttctcct ttgcaaagac cgtggttgat attcatcggt	600
aggc	604
<210> 39	
<211> 687	
<212> DNA	
<213> Homo sapiens	
<400> 39	
ctcgagcagt aacctgtgct tctacaatta tgacaccac tccagggata gtcactgcca	60
aagggtagaa ctgctggggg ctcatgtcac tcacacagac taagagtgtg gcatctccca	120
gttatgcggg catcagggca acatggggag aacagtggca ggcacataag gccaccccca	180
ggtacaatgt ccagtgcagt tcacgggtag gtaaacttac tctgtgtccc cacagaccca	240
tagactccca gggggcaca agtcaatcag ggcctgacct tggtagtgac atgtgttatg	300
tttgcaaagg ctgtgacagg taccatccc acagtgggtg taccatcatg ttgctctatg	360
cactgtggca cttgggctgg gactactaca tgttccccac tagccagccc catcataaac	420
gctatgggcc agccaggggt tgggcacacc atgtgtcttg cagcatcctt tgtccaaagc	480
tgccatgttg cattccaggc atcagccatg ggaccccaa gtctccaacc atgtccagtt	540
ctctgcagac acaagatgta tgtgccaagg caagccatcc gcagccctgc tggaagggca	600
gtgcataatcc aatagttgga aacattggc acctagtgtg aggtgtgggc ccagtccaca	660
atgcaattgg agtatgttaa cctctgg	687

<210> 40
 <211> 550
 <212> DNA
 <213> Homo sapiens

<400> 40
 aatttttttt cactacggaa actcgtttgc taatataaat gcagactttt tttaaaaaaa 60
 agcttttattt ggaaacatga tgaaaaatgt gatgtattaa tacttactga tactccaaga 120
 aaaaaataat aaaatattta gaaagctcct cccatcattt cctttggcct ttttaactcta 180
 ccagatcttt gagaatgcat attgttgctg gtttaaccaga tgaaccaccc tttccttact 240
 agttctgcaa gattcaatat cattcatagt ctccagcact cttagagtaat cattactagc 300
 tgtaggaaa attatgggtat ttcttaaaaa ctttctttgt gacaagtga taaacaaaa 360
 ggattaaaa aaagatgttc cagtttgga aaaataatgc aatgaatact gcatctgatg 420
 caccatttaa gaaagagaga aaataaaaat gctcatttct aattgtcttc atttcagcag 480
 cttcccaaat attcttctat ttctttcttt ttaagtaatt accacatttt catatttgct 540
 gaatcatgaa 550

<210> 41
 <211> 617
 <212> DNA
 <213> Homo sapiens

<400> 41
 cccgagtgac agaagccatt tcaactgccag agactcttag cggccttcag ttctcttgag 60
 ctggagccac tgggtcttgt atgaaagctc accaggacat ctcatgtgga cctcgggcat 120
 ctgagccggg accatcctat tacaagtgcg gaaaccagat cattaatgca gagctgaatt 180
 caaattgtta cttgctagct taggaaagaa tccttgga tccaacatat tgtctaaatg 240
 gatcagttaa tcttactatg tgcatcttac atacccttc attgtttggg cttaaataac 300
 tttctgctt tgtctggtt aatttcatcc aatgtggatc gctggaagaa tatgatgtat 360
 gttttagaat agaaacagtt ctgagatgaa gttgagcaca atttctgtt ctagtgtcaa 420
 ttaaatataa atatagcatt tgacataaaa tagctggccc gatataatga gagtacaagt 480
 taagtgtcat ccccttagaa ttgggcattg actccgtaga attcccctt gtacaagggtg 540
 agcaaagtga tattttgtta aaaataagta tctgactgcc aaaacggaca gaaagctctt 600
 tgccatatgt gttttca 617

<210> 42
 <211> 653
 <212> DNA
 <213> Homo sapiens

<400> 42
 ctttttaatt ttgttttgt agcagttgtt tgtatccatg tgtgttggtg cccatatgta 60
 ttgtttgggg tttgggtatt ctctcaaaac caagttaccg taaaaagttt gaattttagt 120

00100US1.ST25.txt

atttctttat tgagtagtgg gaccgtctag actgtgtgct gactcttact aaagtcattt 180
 gtttttctta cccgtggaga ggtgtattct tgaacccttt aaacgggtct ctactttggc 240
 ctaagaccat attagaaaac ttttttgaag tcacttatta tatgccatat aattaaaaag 300
 ttatatggta tattctccca ttacatttta gccacaatgc ccgtatatta aataagcaaa 360
 caaactatat gtggcaatta aaacttaaaa aaaaaagcct gaattggctc ttagaaatat 420
 ttaatcaagt agtatccact agaacttaac atttcatcct gtggatcatc acacacaaaa 480
 tacccaaccc tgctgtcatt cagggtccta gcaggaacag gtagcatcaa ataggataat 540
 tgatgagagc ttaagaaagg aactatttac aaatatgtgg ccagattagg ggaaaccagt 600
 aaggttggga atgccgccca ggattctaac aagagtgaga atctatttct act 653

<210> 43
 <211> 642
 <212> DNA
 <213> Homo sapiens

<400> 43
 tccatgtaac attgatgagc acagttttct cttctgtagc aagcactcct ctgcctaatt 60
 catatgacta aaacagtgtc tctcaaacat atgggtctcag gaacccttta aaatcttaac 120
 aactagtaat gacccccaaa aggtttttta taatatgaat tttatatata aatattttat 180
 tggaagtcca cttttatgaa aataaccttt tttcaaaaat ttcataagaa aaaaatagta 240
 ttatttttacc tttttgaggc atctttttta tccctggttt aatagaagac aattgaatat 300
 tcatgtcaac ttctggattc gatctgtttc aatatgtgtc tttggttgaa atacatgaag 360
 gaaacttggg atcatcagac atatagttag aaaaggggtg agtattttta cagccttttt 420
 ggacaactgt ggacattgtg ctttgatatt acaacaaaac tggagaagtg gtaggttcta 480
 aatgattagt tgcaacatgg aatctgaaac cacatcatga actatttgta atctggcata 540
 ttaagatcta tttatctatc ttgcactttg aatgggatcc tttgctcatg catctttttg 600
 taacatgaat catctcaaac acgttgggtc attgagttat gc 642

<210> 44
 <211> 674
 <212> DNA
 <213> Homo sapiens

<400> 44
 aattaaaatc cctgcagtca aattagactc tgcattgtctg gggatattta aaaggataat 60
 gtataggggt tgccatggta actcatcaag tggtaattct gtacctttct gattgaaaac 120
 cttgaaagga gaagacaagc aatttgggga gataacagca ccagaaattg agttcatctg 180
 taacttaggc tctctgtgag tttgtttacc agctattcac catgtggatg aaaaacagta 240
 aaaagacaaa aaagattcac atttcaaggc tccctaaaat tgccaattcc actctatagc 300

00100US1.ST25.txt

tgattctcag cacaggagga aatgggacta gaatgctggg agatgacact atcatcgaac	360
agtgagctcc aaggagaagc ctaattgtta cttctcaatg gcagaaggcg ggtgcttccc	420
ccggggcagg attctgttta atccttaggt tagagcccag cttcaaccca gtgtcacagg	480
tcaattacca ccctccaacc ctgaggggagc acatgaacca tactcacgca ccggcgcatg	540
ctccctctc agcacctctt gtacattcag agctcctgca tgggatgccg agaactcaca	600
cccttcagg gctgctgaag atcatatgac tgatcatcaa ctttgatttt tgacccatct	660
gtcaacaacg acac	674

<210> 45
 <211> 609
 <212> DNA
 <213> Homo sapiens

<400> 45	
gcctaactga attataaccg cgagtttgca cagtgggtgag catagctgat gagatgcaag	60
caaaaaaaga gtattgctga cctaggacca tgaggaaaaa ccaaatacaa attagtcaag	120
ttggaggaca tttgttgaaa actccacact tccatgaggt ctgtagcctt gagcctatca	180
gtgccgacac agaacattct gaatagttca atgcctcttt ctgttaaaga ggagacgcct	240
cactctgccg ctcaatcttg gacttgtttg tgcacagagg tccttgctta tgtaaacctc	300
gcttttaact ataattcaca gagtcccttg aacacataaa gggaaagcca ctttcgctcc	360
tgtaaggtat gtataagcac aaaaaatgaa cagtgaatta atcctagtgt tttatacatt	420
tttttttaaa aaaagaatct aagccagaat gaggttactg cctaggcaaa gaagaagaca	480
gctcatcaca ggtgagtgtg acacgttttt catatgtaca aattaagcag cctgaaacaa	540
aaggcactca aaaggtaaaa gaataccagt ccacccctct gatttgtcaa atcaaagttc	600
tgtaactg	609

<210> 46
 <211> 522
 <212> DNA
 <213> Homo sapiens

<400> 46	
aaaaaaaaaa aaattcaggg gaaaaaagca attaaaaaaa cataactata aaaataatac	60
aaattacaaa acaaccattt acatagcatt tacattatat tagttataag taatctagag	120
atgattaaag tgtacggagg aatgtgcata gggttatatgc caatactgcc tcattttata	180
tgagggactt gaacatagaa gggttttgga gtccacagag gtcctgaaac caatttcccc	240
ttcccatgcc tgggatgact gaattataca gcagcaaaaa tgaatatact caagctatat	300
gcatgagtct cataaatata atgctcacag aaaaaagcaa gttgcagaag ggtaaatagc	360
gttgatatat aaagggtgcta aacacagaac tatttaatga tatacggatg cagtaaaagt	420
ataagaaatg tatgcaaact tacttaaatt cagggtgttg gttacttgga gtaaggcgaa	480

tgtttgggat gtcagtaggt acctgacaaa tggcaactta ac

<210> 47
<211> 681
<212> DNA
<213> Homo sapiens

<400> 47
agctagggtg ggcaggagtg gtctctgaga ggtgacattt gagctgagac ctgaatgaca 60
agagaccaat gtcagctctc tttaagaaag ttttcctttg ttttagtggc tctctccata 120
ctcttatttt aaactcactt aacatcaata taaaagtgtc ctttgacgca ggacactttt 180
aggaggtctt gagccctctt cccaccagca ctcatctgtg tacaacaag ttgttgctag 240
tgggtgttga gctcgttttt cccaagcttc accttggeat taccagatc tgttcaacct 300
tgggcatctc ttctctccag ctggatgtc acccaacttg ttctgctca gtttctggag 360
gagcctgact ctatttttgc ccccttgaa agaaagtaca ggactgggtt gaggcagctg 420
ctcacactca ccagaggcct ccatacttg taggccacac tggctgcat caagagctgg 480
cagtcctgag aaagcagaaa gcagatggtg aggtagaagg agcgagtgat atggaagggc 540
acaaaacaga ggggtgaagag gccacacacc agtaggatgg tccggatgga cctggctcgg 600
gctgtgttgc ctgtcctcat gaggttctcc tctggcttga tcaggctcct gaccatcagt 660
gaatagcaca ccaaagtgc c 681

<210> 48
<211> 548
<212> DNA
<213> Homo sapiens

<400> 48
ccagggggag gggggcacgg gctataaacg ctgggccgca gcggcgccgg cagagagccg 60
ccgagcccag cacagctgcc ctctggaccc tgcggacccc agccgagccc cttcctgagt 120
tccacaggcg cagcccccg gcggtcgggc ggaggggtcc ccggggcggt gccagggcgc 180
aatcctggag ggcggccggg aggaggaggt gcgcgcggcc atgcacaccg tggctacgtc 240
cggacccaac gcgtcctggg gggcacgggc caacgcctcc ggctgcccgg gctgtggcgc 300
caacgcctcg gacggcccag tcccttcgcc gcgggcccgt gacgcctggc tcgtgccgct 360
cttcttcgcg gcgctgatgc tgctgggct ggtggggaac tcgctggtca tctacgtcat 420
ctgccgccac aagccgatgc ggaccgtgac caacttctac atcggtagt gcgggcccgt 480
gcgccgcacc tgctgccgtc ccggggggct ccgagggccg agcggcctgg ggccgctct 540
cgcgacgc 548

<210> 49
<211> 695
<212> DNA

<213> Homo sapiens

<400> 49
 aagtcgcctg tctttgatct ggtagccagg ctgtgatggc tagctttagg atattttccc 60
 tatattttctc ttgctgtcag gttaccctt ggtatacctg taattgattt cccaggttag 120
 agagtttaga tgtggacagg ggaagtacaa actacagctt agtgaagat aaaccaaggg 180
 tgtaattatc aagttgtact tgaacagaaa tattacccaa taggatttcc aaatgaacag 240
 gatggcaaag agttctgggg tgtggaagtc agagtaggtg ccaaaggatc tagatcaaag 300
 ggggtggtag atgagcaggg atgggtcaga gaaatctagg actgttaaag caagcatgac 360
 ccaggccatg ttctgaggtt ggtaaagtga attatagaag gtgagaccaa atgtgagatt 420
 gtgagatttt aaccacccca aagagggagt atgtgcctca ggcaaagaaa atgggaaaaa 480
 aaaaacatgg tatatggcat atttgaggag caaagataag ttcattgtca ctagggcaga 540
 gcaagggata agtgaatggt gtgagacaag attggagagg ttaacagtgg ccaataacaa 600
 gtgataaaaa taattttcaa atgagagcag cccagcactt ataaagtggg taatgtgcac 660
 caagtactgc tttaagttat cctgcagtat tattg 695

<210> 50

<211> 586

<212> DNA

<213> Homo sapiens

<400> 50
 gcctccaacc gaiaattctg tctgttctc tgaccaggta ctgagccatc accaatgccc 60
 tgtagtatag taaatgggcc atctcaaatt gtatctctat cccagtgtc ttctcctaga 120
 cctcttgac cacctactcc acatgtaaga cctctacat tttggttggt ttgttcac 180
 tcttcacaca ttgccaaca agaacatcca gaagccatca tcacagcacc actgccagg 240
 tcacacagc tcaactctct tctcaaccc cagcctccat gagaggcaaa ggcgcttaac 300
 tggctctcct ctgcttggtt atcacatgaa aatcaagcat gcttatagtg tcttagtaca 360
 acaggaaatt tactttcaaa caaggaaagc cacagaaacc ctggggatca ttttaggggc 420
 ttttatcatc tgctggctgc ctctctttat tgtttctctg ccagccaaga taccaccata 480
 ttaagacatc ttcactcttg tgagcttttt ttttttttc tttttgatac caagtctcac 540
 tcttgtctcc caggctagaa tgcaatggta caatctcagc tcaactg 586

<210> 51

<211> 234

<212> DNA

<213> Homo sapiens

<400> 51
 caggcgctc aactgttcca caaaccaagc ctgaaaccag aactccaact tctagtctga 60
 aaagcaaagt ggcacctcgc aaacaccctg tggccccaag tagtctcacc caaccttggg 120

00100US1.ST25.txt
gaagaagcag aattcaagct gtaactgcct gttggagaga gccaacctc gccctctgtc 180
ctcgaaaggc agcaccaaag ttttccaagt ggaatcaaat gtgcagggag gatc 234

<210> 52
<211> 308
<212> DNA
<213> Homo sapiens

<400> 52
ctgtacctgt cacagttatc aaaaatttat tcattcagaa gtctttgttg aacacctgtt 60
acgtgtactg agcattgtcc taggtatttg agatacatca gtgaacagag gatccttaac 120
agacaatata cataataagt tatgtaatag cttacaaagt gacagtacct ttgggaaaaa 180
ggaaaggtat tataggataa agatgatcaa tgaacaggaa gtttgagtt ttaaattgag 240
tggctctgggt aaggaagatc atacctgaac caagacacaa aggaggttag ggaatgatga 300
gccctgca 308

<210> 53
<211> 584
<212> DNA
<213> Homo sapiens

<400> 53
tagcagagca ggtgctagtg atatttgacg aacagggtgt gaatgaatgc atgaacaaat 60
gcatgaatgt ggaaatgaaa ggggatgcag atggagatga tgcagatgga gatgatgatg 120
cagatggaga tgatgcagat ggagatgatg cagatggaga gcagtaccca tgcagagtct 180
ttgcagacct tggcttggtc tcaggctgtg ggggctctgc aagccaaggg tttgagttcc 240
acctccagtg cttgccagca atgccacctt gggtagacct tatcttgcta cctggaaaagt 300
ggggatgctg gcagccctc cctcctggca tcaactgacac tgcaggtgca ggggtgtgatc 360
cctttgggta caggcgggg tggtagacct ccaggtggg caggtccagt ttggatgaaa 420
ggccaaggac gattcatagg agagcacagg agtccttgct tagccccagc aattccacag 480
aacctgctgt gaactgctgg ctgctgccc taacttttcc ctgtccctat ttccactcct 540
tggaggccgc aagaacaact gctggctggc cttggccact gcct 584

<210> 54
<211> 560
<212> DNA
<213> Homo sapiens

<400> 54
agtcttttcc tttagggaaac tttgtgttg cttcactata tagttgttgt ttcaacaatt 60
ttgtgttgtt tcacagtttc actgtgacag tttgatgtta ggttgattct ttttcctcct 120
ctgtataaaa gattatgtca ccagaatctt ctttcattac tttggatagg acctaaagga 180
ccctctcaat ctgaaaatct atgctatttg ttatcacaga gcagttttct gctgtcattt 240

00100US1.ST25.txt

```

ctttgattgt tacttttcta tttattcctt tttctctttc taaaatgccca ttatttgat 300
attggagtca tagatctgag atctgtgaat ttgctattca tgtctcatat ctttttgcaa 360
atggtttcca tgtctccaag tctttgttct ctattgtgag atattatttg tattgttttg 420
tccagaatat taatttagtt ctattcattg actattcttt ggttttgctg ttgaattttt 480
aaattcagga atagtgtgtt tttctttcag attatttttt tctgtgacct aattgcatct 540
tcttacgggg tcttattata 560

<210> 55
<211> 234
<212> DNA
<213> Homo sapiens

<400> 55
gccagggaa gccaaaagat tggacatcca tgctccctc ctctccctc ccgactgcc 60
tctcttgatg gcggccagtg tggcctacaa gatatggagg cctctgggga gtgtgagcaa 120
ctgcctaaac ccactcctgt actttctttc aaggggggca aaatttgagt caggctcctc 180
cagaaactga ggcagaacaa gttgggtgag catccagctg ggaggaagag atgc 234

<210> 56
<211> 585
<212> DNA
<213> Homo sapiens

<400> 56
tccttggtca ttttygyly ctattcactg atggtraggga gctgatcaa gccagaggag 60
taacctcatg aggtacaggc aacacagccc gagccaggtc catccgggac catcctactg 120
gtgtgtggcc tcttcacct ctgttttggt cccttcata tcactcgctc ctctacctc 180
accatctgct ttctgcttc tcaggactgc cagctcttga tggcagccag tgtggcctac 240
aagatatgga ggcctctggt gagtgtgagc agctgcctca accagtcct gtactttctt 300
tcaagggggg caaaaataga gtcaggctcc tccagaaact gaggcagaac aagttgggtg 360
agcatccagc tgggaggaag agatgccag ggttgaacag atctgggtaa tgccaagggtg 420
aagcttggga aaaacgagct ccaacaccac tagcaacaac ttgtttgtac acagatgagt 480
gctggtggga gaggggtcga agacctccta aaagtgtcct gctgcaaagg acacttttat 540
attgatgtta agtgagttta aaataagagt atggagagag ccaact 585

<210> 57
<211> 660
<212> DNA
<213> Homo sapiens

<400> 57
gtcacactga attagggacc acccttgtaa ctccatttta actcgattgt ctctgtaaag 60
gccagttctc caagtacagt cacattctga ggtactgagg gtaggactc caatgtatct 120

```

00100US1.ST25.txt

ttttgagggg acacaattta accctaatag accacaatta aatggaatg caataataaa	180
aactaacttt tattgagcat tcgtagtctg agtttgcat tgcctaagag tgccttacat	240
taattaatgt aatcttcaca atcctatgaa ctgagtatca ttattacca catcttaca	300
atgagtgggt ggagtccatg gcaagagtaa cttgcccag gtcacgctgc tggtaagatc	360
agaaccagac tcaaaaacag tagtctaatt ccacagcaga ttccgtcaac aactattcta	420
cacagtctct actttatggg gttcaacata gagactattt tgatgtctgc ggtagctgtg	480
agaatgtggc tcagagactt ccatctatgg ggaactcaat caaccaaagg ccccgctcc	540
tgcactttga gacctgtcac tatgttatca ccgagccac atttcccatg ggctgcttcc	600
agccaatgcc caaacaatgg cagggagact aaggcatcct gttcctgggg agatgtggga	660
<210> 58	
<211> 643	
<212> DNA	
<213> Homo sapiens	
<400> 58	60
attctgtcct cttctctctg cctgcggccc ccatctcctg agcccagcga gctcagtgt	
agttcactgt ttgctcctcc ttgctgcaga cacagaagat ttgggagcgt tcctgccgag	120
gttggttaagg atacctggaa cagtgggcgg cctctttgct cccacttgc taggagtaaa	180
gccgttttaa aagacacctg agcctctccg ggttctgtct cctcactcaa cccacagta	240
gatctgttgg ggaggttgag ggctcagtga atctgcaggt gcagcatcgt gtctcagt	300
tcctgcccc tgettccacc cgggtgtcag agctgcacgg tccacccac gctgccttt	360
ccatcgttcc tcatcagccc tgtgatcttt cctgtggccc tgctgtgtgt gtgccctgtg	420
aggtcctgtg gacacaagag actgcacggg ccacacccc agctgggtga gtctctccc	480
tcctgggtac tctggacagt aaagaaagat ggacacgtgg gctccgtgga gcatgaggta	540
gtccaggacc tcggcgcca caggtcctgc ctccctgctt ctctgcccct ccctcccttt	600
gggtctctgc tccacctcgg taaacgttc gttcccacc etc	643
<210> 59	
<211> 670	
<212> DNA	
<213> Homo sapiens	
<400> 59	60
aatatgtctt aatattctag tagggttaat tctttattgc tttttcttt ctagaatttt	
tcttatatta ttttcatat aaattttaga ataagtctgg ttgggggggt catatagcaa	120
taggtaaatt gattaataaa gtgatttggg gaaggtttca caatacatat atgaatcaac	180
ttcgggagag tggttatgct tatgtttagt cattatattt taaaatgtga catatctttc	240
catttgtttt aagtccttga tcaagcatta gttgcctcct ctgagaatct ataattaaat	300
tcaagataaa ataatttttt ccattttattg acccattttt agcttacaat ttgttttcta	360

```

cccttgtaag tattatgttt ggtaaattat tttttattaa tatctccctt acagatatta 420
tacgccataa ggaaaggagt cacagatttg gtaatagaga ctcaatacac gtttggttga 480
atgatgaaag cattatgagg catattttct tactatgttc acctaataat cttaaagtta 540
tcaagttatt aagtagagcc cattcacaag tccagatctt ttgattttaa atcctgtatt 600
tttccatatt ttcaatattt aataggggaa gtaacatgct aaaatgctat agttttgcaa 660
ttttatatct 670

```

<210> 60
 <211> 662
 <212> DNA
 <213> Homo sapiens

```

<400> 60
aaggaaaatg gaaactagat gaacgtgaca atataagact tccaaatcca cgtggttcca 60
tgaaaatagg aaaaaccgaa tgccaaaggg caggccacag aaggaggaag accagcgcta 120
tgagcaggat ggtcacgtac agcctggtca gtggcatctt ccgggaccca caaaggatcc 180
tgaccagcag gaccaggctg gaaccacaga gagccacaca taaaaaaatc agcccccta 240
ctatgatgaa atctgatgtt taacacaaaa cagaatcagc accactaaac aggaagtcac 300
agaaactcca ctccaggacg ctccgcagca gagacagggc ccagagcatg acacacacga 360
ccgctgacag gtgtaggggc gggggcggca ggcctaccag atgggccaca ggacgtacag 420
gcagcgctcg gtgcacaiyy cgcttagaaa gctcagggtt gcaaggtaaa aaaacatcat 480
cacagggctg aggattttga agatgggatg gaggatattg atgaggctta acggaaaacg 540
tataatgtgg cttctgagaa agaggaagtc ggccatggac aggttgaaga tgtagatgga 600
gaaagcgttc ctgcgcatgc ggaagcccag gagccagagc acgactgcat ttctgtcat 660
cc 662

```

<210> 61
 <211> 603
 <212> DNA
 <213> Homo sapiens

```

<400> 61
cacacacaca cacacacaca cacacacaca cacacacaca cacacgcag caccattta 60
atgggttccc tgggggcagc gcatcagtc cactcactgc tgggcctcca gggcctgcca 120
aaggggcaaa gtcacactca gacataaact cttggtttta gcaatccaat aaacagtcac 180
gaaactaagt gaggaagtt attagattga agggatttga gggaaagtcc catcaaaaag 240
taaaacttga tcccacctcc acttcttga tgagttactt aatctctctg gcctcagttt 300
tttcacctat aaaatagaaa ccatgagagg acctacctca ccaggctgtt cttaaagttaa 360
atgagttaat tctgtacaa gctgagaaca gcatctgata cagtatctaa taaagtcagt 420

```

00100US1.ST25.txt

tattattact tttattatta ttatgtactt ggttatcatt attttcattc atcaattatt	480
atttctttca cctctttgct gccacctgga gttcctggaa ccccttcacg gcgtacagca	540
gggagacagg ggagggcaga tgccatttgc acagccattg ggactaataa gccccagcac	600
ccc	603
<210> 62	
<211> 427	
<212> DNA	
<213> Homo sapiens	
<400> 62	
taatgtggga ctaaaaaact attaaaaat aatgacttca accttccaa attaggatgg	60
aagaacataa acctaaatat tcaaggaaac aggagcaaac cctaaataga atacacccaa	120
atacattcaa tttctggaaa tgaaaaaaaa aaattaaaaa tcttgaaagc aaacagagga	180
aaaatggcac atttcttaca gaaaaacaat aatgtaaacc acagcagatt ttccatctga	240
aaccatgaag gttggaagga aacagataat atttttgaag tactgaaaga acagaactgt	300
gaactgtaaa ttcaataccc agcaataata ttcttcaggc actaaagtga catagaaaac	360
attgtctaata gaaagaatgc taaggtaatg tgttgctaac aaacttacct ttaagaata	420
agttctc	427
<210> 63	
<211> 550	
<212> DNA	
<213> Homo sapiens	
<400> 63	
acctctaact ttcttcacta atgtgttgat gtctgtcact gcttaacaag caaaatggca	60
tcagaaagag ggtgaacaaa taaaggtata tttagggtata atgatgaatt cgaggtaaag	120
cacatcaatg tttccaccaa ggtttttgct tccagtgtgg tagggcaaaa agatgtgaac	180
tgaattattg gtactctcaa attaaatgta ttcattttat taattcattt agcaacagac	240
atacacaggt acatataccc atatccgtag tttcacttat aaagaaaaat taaatccacc	300
caactgtttt gttttctgca atatttttaa cttctgtgac tttttgtttt ttccattgct	360
ttgaatccac aataggtagg taggagaatt tgaagcacca ttgaaatgaa gtattctaga	420
aaagtatgca gaaagataaa gaaaatgcat ccatctctag aagtgttac atctacttag	480
caagtgtgaa actcacaatg aggatttagc ctgtagtat ggcacagatt ataaatagga	540
gagtcgctgt	550
<210> 64	
<211> 556	
<212> DNA	
<213> Homo sapiens	
<400> 64	

00100US1.ST25.txt

```

accttggcct cccaaagtgc ggggattaca ggcgtgagcc accgcgcccg gcctaatttt    60
gtattttetta ttctgtattc ttttccttaa aaaacctttt gcccaaattg tatcaacttc    120
aataccccaa cgctggaccc ctccctagat acagtcataa agcaaatgac acgttagacc    180
acgtgctccg ctaagaacat agaacctctg gcttgggtga tacttgggtg ttctgaagaa    240
gcttttctctg ggggtggagga ggaggaggag gaggaggaag accctttgag ctttaaaatg    300
cccaggagcc atttcctgta atgggtggat gcaaagaagt aaatgatggg gtaatgccac    360
agttcatgtt catgagggcc acggtggcct gaagggacag taagaaagcc ctccgctcgg    420
cacaggatgg caggtggagc atacctctcg ccatgaactg cttgatgttg aggtggtagg    480
ggctgaagca gaccaccagc gccaccagca tcagcagcgt aagcaggcag cctcgccagt    540
ggcgtccttt cctgct                                     556

```

<210> 65
 <211> 600
 <212> DNA
 <213> Homo sapiens

```

<400> 65
catacccaact gagggagaat ggagaagagg gtggggttct gcttgcaggg ccctttgcac    60
ttcaaataatt ttacagggaa ggggatggca gatgcaccct ctgccaaagg aagctttgag    120
ggccagcatc acatagccct gtggtgaatg agagctggca gggtgacagt ctgcgaggaa    180
ggaaggatgg agctccgacc cctttgcttt ctgaaactcc tgctgagaga gttggctcca    240
cagccctggt agggctcggg tagctgctgt ggctgaatca gtccctctgt atcaccgcgi    300
cggtgccatg aagtggaaaa gcagtctctg ccctcctcgt tctccaata agcccatcct    360
aatcaccctt atcatgctcc ttccacacc tgagaaaaaa tggcctcgca gcagacgttt    420
gaagtcaccg ggactggaaa agtctttcaa atggcacctg atttggtac atgcctgcag    480
acaggtgaaa gttagtgcc ccatttcaca ggtgaggcca ctgaggttca gagaagtcaa    540
tcaatgatgt gatcatgctc acacatccca gcagtgacca aatatgtaac attcatacac    600

```

<210> 66
 <211> 549
 <212> DNA
 <213> Homo sapiens

```

<400> 66
cctgccccca ccaccaatac tggtgccca gtaagtgtc tagtgaactg aggaaatatt    60
ctcctcatca actgccactc tcaagggccc aagtgtacca tttggaggct taggtattga    120
tctgccccac cggatcatc tggcacccat gcacacctc agggacctaa ggacaggccc    180
actctgctg ccaactgtcat tactggtacg caaggactgg cctgcctagt gtctccatcc    240
acagcaaagc attgccacag ccctagtgtg ttaagccact gaggagctca cagacaccac    300
tcacactgtt tacagcagga gaaatcctat ggggcctata atactgtgcc caccttggat    360

```

```

caaaaccaa gtactctatg caactaacac tacagctata tctacaggaa aaagcctctc 420
cctacaaaag ccaatccaaa aacctaggag aagcaactgt cacaccaa acacagatac 480
caacttaaga acataagaaa catgagaaaa caaggaaaca tggcattttc taaaggagca 540
caataactc 549

<210> 67
<211> 550
<212> DNA
<213> Homo sapiens

<400> 67
agctgggatt tctgctaact gatgtccagt cggatatttg atatctcaa tgacatgaaa 60
ctcactactg ctcagcaacc ataggaagac actggccagc ccatccactc atgcggtgct 120
ggaacccttt ttttatttta aaatatttaa ttgacaaaaa ttgcgtctgt tcaagggtgcg 180
atgtgatgct tcgatctaga tatatacagg tatattgatt accacagtca aattaactaa 240
caaatctatc accacccatg attaccatca tgttgagggg atgaggcagt gaagacacta 300
aagatctgct gtcttatcaa atttcaagtc aacaatacag tattattaac acagtcacca 360
tgctgtgcat taggtcccca gaacatgtaa ctgaagggtt gtatcttttg accaacatct 420
ccccagctct gcatgagtgg atggtcagca ttttccaaac ccactctgaa gactttgcct 480
ggttggttac atcaatatct cctgagaaaag tacaaaagtc caggcccagt cacagaaatt 540
ctgatgcata 550

<210> 68
<211> 605
<212> DNA
<213> Homo sapiens

<400> 68
caaaatatac atgcatgtac atactatgaa atatgtatta tgtaattttt gtgattctat 60
gtataagtta aatgctttta tatttgcatt ttaaattgat actgcacaac ataaaaatga 120
atgtgaaaat ttattgtggt aatttagatt ttttaatttt ttacataaaa ggacatagaa 180
tagcaaagga aaaacaaaac aaacaaactg aaagacgtaa caagttgaaa aatagatcac 240
agataaagga aacattttat actttgatac acttaataga accttttgct tatattttga 300
actagagccc cacactttca ttttgcacta gaccttaca attatataat caaccctgga 360
cactgaatta agacaaaagc caatatctac aaaaatgggc accatagccc aagctattgc 420
tttgaagcta cattagtcc tgtttccagc tgtgagcctg aactccattt taggaagtga 480
gactggccag gtttctgtg tagagtgttg catttttatt ctctaggacc ctgcaagagt 540
ctacagtaat tgtagactca aaaatgtcag agattgctgc ttgtatttat ataatgcccc 600
atact 605

```

<210> 69
 <211> 669
 <212> DNA
 <213> Homo sapiens

<400> 69
 tattttccta tctaccacat ggaatcagaa ctgtcttgga gatttatgca tctgaacaat 60
 aatattttaga acatcatctc gtctttgaca ccactttggt caacacaaaa tggctattca 120
 aactactctg gaaccctgtc ttgtcaacca atgcaggaat cttagttaat gtattccata 180
 aacacacgca ggtttccctt aagcacagac tccatgtaag acaagtttca tactttttca 240
 ttgtgaaaga tgcagggtact attggatgga tctgaagagt tggcaaatg acaggaagat 300
 caggcaggct gcctgttttt aactttatga aatttttcat gttttattat ctatctactc 360
 agataaaatt aggtgggaca cttttttaat gcttccaata aataagaaaa atgtgcctgc 420
 agcatgaaaa atcctttgac tgccttgtgt tatttgcaac agatgaatct aatttgatt 480
 cagacatcag tgctataact aactagagaa ataaaatgga tgtctatgat ctctcttcaa 540
 ttatttagta aggatgaagt gtcaattggc taaaagtaat aacacatgg ctgtacttag 600
 tgttacacct attaggtaga aatatacaca catacacgca tatatacaac agattaataa 660
 caccagaag 669

<210> 70
 <211> 537
 <212> DNA
 <213> Homo sapiens

<400> 70
 tcctgaagtc agatagtagg agtcttctaa atttgttctc tttcagaagt attttggtt 60
 ttttattctt atgaattttc gtgtgaattt agaaacagct tgtggatttt aaaaggaaat 120
 gtctgcttgg atttgaatgg aattgcgttg catccagatc actttgagga aatttgatc 180
 ttaattctat tgaattttcc aacaatagac atgatgtagc tctctgttca gctcttcttt 240
 gatTTTTTaa atagacattt acagtttttg gcacagaatc tgtatatgtt ttgtagatt 300
 tatagctaag ctttttatgt ttttgatgct gttttaaaat ttttaatttc aactggatc 360
 tgctgccata cagaaataaa acagaaatac agaaatacag ggtacaaaat aaacttgacc 420
 ttgtttcttt cactctagat agtattgctt attagtctta ctaagttttt ggtaagttct 480
 ttgagatttt tctccacaag caatcatgct aactaaaaat aaaaacaatt ttgtttt 537

<210> 71
 <211> 1000
 <212> DNA
 <213> Homo sapiens

<400> 71
 aaaaataaaa gttatggatc acagcagatc ataatagaga atagtccatc tctcctagaa 60

00100US1.ST25.txt

```

aatttttaaa aataaatctt agaaactgca tgggaaatac tgtaaaaaaca aaggttattg 120
tcctcagcta tgaattagaa taaatttggc actagattat ggggtattcc cacaggaaag 180
taccttactg attttccctc tctcttctt gatacattat ggttgaaccc actgttatgc 240
aacacctgct tactttggcc ttaagggcca tagtgacaaa agagaaacct ttaaagaagt 300
catagtaaat gttagggaaa gggattttca atgcatggat atatttggca aggtaaacia 360
aaagttgcct gatagcaagg gaggaggcag gccactgtga atagcaactt atactagtca 420
atattgaaaa gtaaaagcag ttgaatggtt tcaaagtata taagaatata aactgattgc 480
ttataaaatg ttttttaagt agagactgca ctttaatgtg agatgaggcg gatctataca 540
ttaattttat atacgcaaat gatcctactt acattcttga aaataatttg actctttagg 600
tgaaccaact gaaatctcat ttacactgtt gatttgccta gtaaataatt ctctttagta 660
tgagaaaaac aaagaagttt gaagtggcac aaattctaaa ttactagaat atgatttaaa 720
tggctaggag aatattataa ggggtataaa acagaatatt aatccaaata ttttaagatgc 780
taattctggg taaaagctat ttttgagatg acatgaattt tcaaaatact aaaattttta 840
aaataatcat ttccacaaac ttatttaagc tgtgtgtaat gtatgtaaat actaagtaat 900
atgttattca attttaggaa ctttatgtat gttttcatac tagtattaga aaataattct 960
gaaaggaaga tgaaaatgaa aatattcatt taggttaaac 1000

```

```

<210> 72
<211> 1000
<212> DNA
<213> Homo sapiens

```

```

<400> 72
atgatattcc tattggatgg tgctaactctg gtgcagggtt tcttaacctc aggactactg 60
gcattttggg tcaggtcatt ctttattgtg tagggctgtt ctgtggattg tagaatggta 120
agcagcctcc ctggcctcta tccactggat gccagttata cccgctccag ttgtgaccat 180
cagaaatata tccagataaa ataccaaatg tcccttgggg gagaaatcgc cccagttgg 240
gaaccgctag tctggagaaa ctccaagatt taaaggttgt agaagagaaa gagctgccag 300
agaagactga aagggcagtg gaggagagtg ggggtgtgtg gggggggtgt gggcaggagc 360
caaaagagtg tttcaaggac ttggtcatga tccttttaaa atgccagtca gatcatgtca 420
cttctgtctc aaaaccatcc acacgcttca catcccattt gaaataaaat gccaactgct 480
taccatgccc tatacacaga acaactgtaa taacctgggc acctttgaga gtgaaaggag 540
gcaatactaa taatcatgcc agggcagttc agggcacact ggaggtacca tctcctaagc 600
tcaggccctt gccatctct ccagcttcat cccaaccac tttctgcctt gtccactcac 660
ccacgacagc cttcttgcca tttgtattgg gccattctca cattgcaggg gccagagctt 720
aggatgacaa acatatagca acacatataa tgtaatgtca gtgatattaa tagatgctgt 780

```

00100US1.ST25.txt

gaaataagat aaagtgaggt ggagacatag ggtgactggg ggattggtgg ctattttact	840
taggggtcag gagatcgtct ctgaggatga atcacttatg cagagacccg aatggagaga	900
gggaatctaa gaagatctgg ggaagaggat tccaggcaga aggaacagca agtggaaagc	960
cctgaggtag gaacaagcat ggaatatcaa tagaatggtg	1000

<210> 73
 <211> 1000
 <212> DNA
 <213> Homo sapiens

<400> 73	
ttcctattgg atggtgctaa tctggtgcag ggtttcttaa cctcaggact actggcat	60
tgggtcaggt cattctttat tgtgtagggc tgttctgtgg attgtagaat ggtaagcagc	120
ctccctggcc tctatccact ggatgccagt tatacccgct ccagttgtga ccatcagaaa	180
tatctccaga taaaatacca aatgtccctt gggggagaaa tcgccccag ttgggaaccg	240
ctagtctgga gaaactcca gatttaaagg ttgtagaaga gaaagagctg ccagagaaga	300
ctgaaagggc agtggaggag agtgggggtg gtgtgggggg gtgtgggcag gagccaaaag	360
agtgtttcaa ggacttggc atgatcctt taaaatgcc gtcagatcat gtcacttcct	420
gctcaaaacc atccacacgc ttcacatccc atttgaaata aaatgccaac tgcttaccat	480
gccctataca cagaacaact gtaataacct gggcacctt gagagtgaag ggaggcaata	540
ctaataatca tgccagggca gttcagggca cactggaggt accatctcct aagctcaggc	600
ccctgccccat ctctccagct tcatcccaa ccactttctg ccttgtccac tcaccacga	660
cagccttctt gccatttgta ttgggccatt ctcacattgc aggggccaga gcttaggatg	720
acaaacatat agcaacacat ataatgtaat gtcagtata ttaatagatg ctgtgaaata	780
agataaagtg aggtggagac ataggggtgac tgggggattg gtggctat	840
tacttagggg	
tcaggagatc gtctctgagg atgaatcact tatgcagaga cccgaatgga gagagggaat	900
ctaagaagat ctggggaaga ggattccagg cagaaggaac agcaagtgga aagccctgag	960
gtaggaacaa gcatggaata tcaatagaat ggtgatatgg	1000

<210> 74
 <211> 1000
 <212> DNA
 <213> Homo sapiens

<400> 74	
aagcttacct tggctgctta cactcttata caatgccatt taccttgtgt gatacataat	60
atcttgtatg aatcctat	
ttctctgtgt tgtgtacct tctttgaaga atatgacctg	120
tctcaataat tcttttaatg ttttctctt agtccttta acatcagcag ggcatttgta	180
gtgggtgacag gagaacata aacatatacc tcttttctat tgcttttctg ctatttacia	240
taattctgta tgactctgaa acaaaagaac aattacctga caatttctt ctgagtccta	300

00100US1.ST25.txt

tattctggct ttcatatcca atctcctttt atcatgctat tacctctctt ttcttctgtc 360
 tttaggatg gaaaaattca tcaacaccct aaataccagc cagagaggaa aaaagagtct 420
 ggatggaggc aggactcctt tcaaagctga atctcaagca ctgatcacgg agcagcagca 480
 aagagacact caaaaagagt ggagagagga aaaactagct gatctctaag gtgtcttcca 540
 ttcaaattca ctataattat aagaatgtga ttactggagg aagaacaagg gcaggggcat 600
 ttctgcaaca tgacgcaaaa aaatattgac cttaaatttg atacatatga actttctaaa 660
 tgtagagaga agctacctcc ttgctgcaact tgtatgtgtg ccattcattt cattttaata 720
 aaagtttgta aacatgaatg aatgcagggg acagaccacc tctttatgag aatgcagcat 780
 agttcagaga aagtctattt accaaaaact gaatacatgt ttatactgaa attttaattt 840
 tttctatttt tatttttaat tgtgataaaa tataaataac ataaatttac catcttaatc 900
 atttttaagt atacagttca atagtattaa gtccattcgc attattgtgc aaccaatttc 960
 cagaactcctt tttatcttgc aaaaatgaaa ctctataccc 1000

<210> 75
 <211> 1000
 <212> DNA
 <213> Homo sapiens

<400> 75
 accacaaagg cttagggcat ggattattgg aaactctctt ctgaaaaatt ttttactaat 60
 ttgggagat+ aacagtcaga atcaatqqqt qatggtttat agagtgatac caaccttgtc 120
 cagtctgct catcatttcc aatcaacaaa atgaataaag atgaagagag tatgcttatg 180
 acatcagtga atagtacaga tctcagactg ctgaagaatg tacaagatga ctagcctgg 240
 atccaaaaag ccaagctgga gaggtagggt ggttccaaca agacaaaatg taaaaacgaa 300
 gaccaatact taagaccaa aagtcaagcc aaacaaaaca tgctgatgtg gctaaacagc 360
 aagttgtgct aaaaaataag actcaagaag tcaaaggcca gttttatatg aatccaaaaa 420
 gccaatgcaa ttttaatttg ctttaataaa tatgtattat ctggaaaaaa acacatacta 480
 cagtgagttt tctgtggaat gaaatactaa agcatgtttt cttggagaaa gagtttccat 540
 gaccaaataa gttgggggat actccaagtt gatataaaca ggtttatttt ctacaggaat 600
 actcaaagtc gatatggtga ctattgcttc tcaaagttat ttgaacatgg aacacttctt 660
 tttgtagtac ctcttgaggc tgggtttaaa gagaacactc ttgagaaaac actgaacaag 720
 ggctgtctca ggaggcagtt ctctgtaagt gggactcttt ttaaaaacag aagagatcca 780
 aacatcagat gagtgttggc ctaaatgacc ataaggtttc ctctaccct cgaagtctgt 840
 aatacttggc tatccagacc taacaaacaa tcctaattcc ccatgacacc tggaccagag 900
 tttctgatga gagaaactct agagaaatac tagtagcaga gtaatgattt aaaaaaaaaa 960
 aaaacttttc ctccaatgag tgcattgcttc aaaagggctg 1000

<210> 76
 <211> 1000
 <212> DNA
 <213> Homo sapiens

<400> 76
 ctccaggatg cgcccccttc cggcacagcc cactgccata tcttgctgga acctgggtca 60
 tcgtccatcg tctatcacag gctccgccag cttcgtgga tgccatctat gtccgtgggt 120
 ctcacccgtc tcgccaccag cttccactac gacgtggac agtacacagg gagcagacgg 180
 ggattccagg aggaagccac tgcaaatagg gcctgcagct gccctctctc cttctgaaat 240
 cctagcatag tccaggacac agcacctccc tggctgagca gctgaactgc caagctcaac 300
 tccctgattg agcagatatt ctgcagaaat agaaaaggat ggagggaagg cttcttccca 360
 cacaatgaac atcaaaccac cccaaggggc agtggctggg gcctcccttc ccaaacagct 420
 ggctcaaaac atgcacaaaa ttttccaaa gtgggctggg agcagggcag ctggcttcca 480
 ctttcatatt actgatgcat ccagacatac ttccatagtg tttaaaaatt tttggatgta 540
 tgtcaaatgc tcttaagagt gcgatcttag gcatgtggtg aataaatatg atgtaatcct 600
 cccgtctcca aggtgtctgc tgccctctcc ctccctccct cactggctct gggcaagccc 660
 ttgacctcca cgatctctct gcgcctctcg tgacgcccac aacaaggggc tgtgccaaag 720
 ggaaaggtag aaagaaaaga ggatgtgctg tgtgtgtgca tcatccctgt gccagagaca 780
 gyycaayyy tgggtggcctt gcaccacggg cgcacccccc acatqqqgaa gctgggggtca 840
 cctgcacca caggcatccc atcagcctct gtgacactga caatgattct cgtgaatgga 900
 caggctgaat ggtcctcagc cctctctttc tatgtggct gaactctgag gcgggaacag 960
 gacagacagt ggctggaggc cctggcaggg agggcacccct 1000

<210> 77
 <211> 1000
 <212> DNA
 <213> Homo sapiens

<400> 77
 ctgtcagttt ggtgccctcg gctacgcagg gcctgttaga aggtgcccct ccctgccagg 60
 gcctccagcc actgtctgtc ctgttccgc ctcagagttc agccagcata gaaagagagg 120
 gctgaggacc attcagcctg tccattcacg agaatcattg tcagtgtcac agaggctgat 180
 gggatgcctg tgggtgcagg tgaccccagc ttcccatgt gggggatgcg ccggtggtgc 240
 aaggccacca ccctgtgccc tgtctctggc acagggatga tgacagcaca cagcacatcc 300
 tcttttcttt ctaccttcc ctttggcaca gcccttgtt gtgggcgtca cgagaggcgc 360
 agagagatcg tggagggtcaa gggcttgccc aggaccagtg agggagggag ggagagggca 420
 gcagcacccct tggagacggg aggattacat catatttatt taccacatgc ctaagatcgc 480

00100US1.ST25.txt

```

actcttaaga gcatttgaca tacatccaaa aatttttaaa cactatggaa gtatgtctgg 540
atgcatcagt aatatgaaag tggaagccag ctgccctgct cccagcccac tttgggaaaa 600
ttttgtgcat gttttgagcc agctgtttgg gaagggaggc cccagccact gcccttggg 660
tgggtttgat gttcattgtg tgggaagaag ccttcctcc atccttttct atttctgcag 720
aatatctgct caatcaggga gttgagcttg gcagttcagc tgctcagcca gggaggtgct 780
gtgtcctgga ctatgctagg atttcagaag gagagagggc agctgcaggc cctatttgca 840
gtggcttcct cctggaatcc ccgtctgctc cctgtgtact gtccagcgtc gtagtggaag 900
ctggtggcga gacgggtgag acccagcgac atagatggca tccacgaagg ctggcggagc 960
ctgtgataga cgatggacga tgaccagggt tccagcaaga 1000

```

```

<210> 78
<211> 1000
<212> DNA
<213> Homo sapiens

```

```

<400> 78
tatattttct ggatttacat gccaggttac aaaaggagac ccacacgaaa tccctgaact 60
cctgtgccca cccagagatt aacatggaga ggtcaggggc tgttttctct ccataggctt 120
cagtggcctg gatgtctgag ttttcagaga caggataagt ccacatatta tttttaaca 180
aattttcttac aactcaaaag ctttcatatc ttactttctt ggtaagagtc aagtttatta 240
tccacgtcca tacaacaca gctggctaca caaactgac taggacaaaa agtcagaaac 300
atggggcccat aggattctgg gtaaatgtgc tttctaaca aaactatcat atttacagaa 360
aagcagacaa agtgatgaga gtcttctgcc tttagaatta gctgacttta aaaattaatt 420
taactctgac atgtgacaag aattttatac atcattgcaa aattaaaaag gcactttgga 480
gtggaagtac tgattacagc atatttttga tagagataat ggactttatt taaaacacat 540
tctaccattt tctcctgtgt ttttcttga gtccacagag gaaagttact acacaaattc 600
aggttatttt tattgacggt tatgttatgg tgaagctaga tgaatagagt ttaaagttaa 660
gttttggttg gtatttccag gccacttggc acatcaaaca ggtaagcact ttttctcaa 720
gaaaagtgtg ttgtattgat ctgtcttgc tctagtattg acaattatat gaaattttaa 780
gcattctcctt agaattccca gctttttgag ggccaatttc tattcagggtt tttatggcta 840
atctcttatg acatctgtca ttccaagtat ttaaactctc atatgtttct ttggtgtgca 900
tttttctcatt tgtttaagct cgtttcttag gtcagtgagg gtgtgtgttc tttcttttat 960
atcacagggc tttgtccaca gggtagactc agtcatgtt 1000

```

```

<210> 79
<211> 1000
<212> DNA
<213> Homo sapiens

```


<400> 79
gaaagctgac aaaattacat ttcttgagtc cagtatctat tctttaattg tcttccttta 60
tatttgaact cttagtcaac tgtggtccaa agagcattca actgaggagg gaggtcgct 120
aattttccct cacctagtga cgcccatgct tgagcttcat gaaatttaag ataattatta 180
ttatatagtt atataatcat ttcattgtact atctttttct tcttctttac ttttattttt 240
taaaagcaga aaacaataaa atggccatca attgcatgaa cactgctcta aaaagataac 300
agtaagaccg aacctgaact gttggctacc tggccgtgcc atattaatag cttacaagga 360
tcagatatag aaatatcaat cacaggttgt gtagagggtg ccatgtacag agcacaacat 420
tgtatattaa aaggatgttg agcttttata attattgcta tggttttata cagtgttaata 480
agcccatgat aaataggagc tcatatttta tcttaatgaa gtgctatttt atattactta 540
ttgatttatg tttttccccc aagaaagttt taaccttctg agacttagag actcatttaa 600
atgctttgac ccccataccc tctttgcagg gtgcaggagg atgtgtatga tcttaacctt 660
tacagcaaat ctcttctttt ggatggggta ttgcaatttt ctttttagagg atcacactta 720
gtccagttca atgtagttta gaaggggctg acttcatctc tggttccatg ggtggacgct 780
tgatccactc tggttaagca aaatactgca tcagtgtaac tcatttgtga atgggtacat 840
gatccaagct ggaccaataa gagccctacc tagagttttg cttgaattgt taggataaag 900
ggaaattctt tcctgaagca ccaaggttat tttctggaga aatcatgacc aagagtgaag 960
ccaatgcatg gaaaacaaaa gccgtgagta aaaaaaaaag 1000

<210> 80
<211> 1000
<212> DNA
<213> Homo sapiens

<400> 80
atgcatcatg tcttcatttt gtggcctcta atagattctt gggatgtaaa agaactcatt 60
ttatatacat atgcaaattt aaaaccttct ataataagtc tgacatcacc tgtgtcctct 120
ctgtgtttgt gttatcagca agtgaatttc tcagtactcc cacatcacia accccaatta 180
ccactccata tgtttcccaa attagtagct aatagcgttt tcccaggcga atgtatctag 240
aaatacccag ggattcactg ctatacctaa gtcagcaatg gttcatcttt ctcttgctg 300
tggaggagaa cttgaccaga ggagtccact tcccctggcc cggcagcttc ttgcatggga 360
aactagctgc tcttctgct acttggctga tgatttacc tatagcacat tttatcttta 420
cgtaaacaca caaagtcctt tcacgtcttt gttcctgttc ccatgccatg actccttct 480
ggaataccat tcttttattc ttactcacta aataagctct tctactcctt ttcttcgggc 540
cccttctctc tgattcagct gagaaacaac tactgtctgt ctccatcaaa gctaattttc 600
tgctcctgt tttccacca tactttgcca ttctagacat ctgttgata tcattttttc 660
tgttacttaa ctaatgcac agtcttcatt cattctctc ccagactata ctctcctgg 720

00100US1.ST25.txt

gttcagagca tatctcattc atttctgtgt tacctttgct tatctcagtg ctggcttcag 780
 agtagatact tcagagatgc tatttaaato agagttaggg tagttagaat aggagagaat 840
 gaggactcta tgggtgctcag gtgccatgca tcctgcaaag agaacatgaa aggacatttt 900
 tttttccttc aataattaca tggactcctt cagtgatccc tgtgtctgtt gggccttgag 960
 taattacctg caatctctgt cttgtgagg ctattaatta 1000

<210> 81
 <211> 1000
 <212> DNA
 <213> Homo sapiens

<400> 81
 gccagtcaat gccaaagaca ttctgttcgg tttggaatga ataaaacttc tgatgcccat 60
 atggtaacct tatgctttga gaactcttct atagcacaat aaaatctgag ccgtcagagt 120
 aactaagtga tggaaaatga ataactaaat gtatagggaa agaatccaga aaagaaattt 180
 gtattttatt ttttctaagt aacttcaca gatatgtttg agaaaactgt atgatctagt 240
 gaatagaata ctcaaaactc taatatacaa gtcacaggta tgggcccctag ttacttcact 300
 aaatgactgg ctttaggcag ataacttgtc tggttccagt tactaactat gagaaataga 360
 aaatacatca ttacctttct ataatagtcc acaactatct cagcacaccc aatgtgacaa 420
 aaaaccgtct caagcccact tcagtaacaa ctgagaatct gtgggttcat ttaaatgtca 480
 aggccagcag taagtgaggy ctggttctga ggttgacata ttttgaggaa aacatggtct 540
 tgctttctct tttctgggca cttttgtcct ctggatggaa tccattcttg ggcaggctga 600
 agtcctttct tcattgtggc aagatggata tgccaggcaa ccatcctgtc tgcagagagc 660
 ctgcctagtg agaagttttg ggattagttc tgacttgatg aatttggttc tcatgtttat 720
 ccttgatata atctcttttg ctcaggtgaa tggatatgtt gactgccaca cctgggtttc 780
 tgtgactact cctggattca gtgatggagt cagccccaag taaggcccat aaacaagggt 840
 ggaggagagt ggttcctgga aagaaagtca gggtaaaggc aaggggacaa atgccagatg 900
 ggcagtaaata ggcagctgtc caaattttat gcctgaacca ctgaaaggaa tcttcactct 960
 cactgtgggt attaacatag gacgcggtga tgcttaatgg 1000

<210> 82
 <211> 1000
 <212> DNA
 <213> Homo sapiens

<400> 82
 actagcttgg atgcacaagg attcaaggat gcatagttag caagtagcaa agtagttatc 60
 aagcctaggc gggcgctgac tccagaattc aagcccaagg tcactttctct atactatttt 120
 acattgtatt taagaactac atgaacatga atgcatggtg tgatgcttat agtttcctga 180

00100US1.ST25.txt

tgcttatagt gtcctgatcc tacttctgca taagccatgc aaaggtagtg acccagactg	240
tagaaatgcg tcagagtgcg atataccaac aaaatgaaac gagtgaaagt agtataat	300
tccaacatgt atacactctc tcacacacac atacacgtga gaggagaact aaagattagt	360
gacaggggat ttataacatt ataaaatctg agagcctgaa aacaaagatc caaggcagag	420
ctagaggaac acaggtatgg gtcagtcagg tgcaagttga gaacacagtg atagggttca	480
gaatgggttaa gtataaacag aactagtgtg acagaagtca ttcttacata atattttttt	540
agttgggtacc aagatggagt agatgcagta tgtggtagta aaatcacagg taattaacta	600
aattgttaaa aattgaaata ttgtgctcat tactgatttg tctccaatat ttatctctga	660
tagtcaataa atcaaaatat atcaaagctt aaattgtcag aataaaaccc atgtttgtat	720
aattgcagaa aaattattga aaagcaaac ttgtcaggga atccacgtgt tatcattgca	780
cagctcatat gaatctgaaa agtcacaaat aaattagcaa catggagtta attgggtttt	840
ctttttttgc tttactgtta tttttcttta ccacatgcaa tttcttttct ggttttgtt	900
ttattatgga aacaatacac tcttttttcc taatatttat gcttctgcat ccttgcttat	960
gagtttcttc ttacatgaat gctgtgctcc ttcttcctcc	1000

<210> 83
 <211> 1000
 <212> DNA
 <213> Homo sapiens

<400> 83	60
catggcccca aattagtttc ccaccttatg ttccactagt ttcatagaca aacctcttcc	
tgccatactg gtctgggtcag tgccctccag acactgcagt actgccttga actgggttgc	120
tgtcatcttt tctctctgtc atctaaattc tagcctgtct ttgatggcta aaagcctaac	180
atctctgtgg gcctcagaga aattatcttc ctctgcattc ctccagttgg catctctcac	240
taatggatta atcatattac cctctcctat tgttatgtgc ttttatgcat ataacttag	300
ccccccata ggaccaactg taatcccttt gaggacaggg gtttgatctt gtacctattt	360
atagttcccc acgtgcctag agcctcttgc acactgtagg ctgggggaaa atatttgctt	420
atgctgatga tctgagaaag ataatactgc aaacaggaga agtaaagatt tctttgtctt	480
gttccatttg gaatgaatta gtggcaggta atcagttaga ggtcagttca gaaggttaaa	540
atacgtggac ttatccccg ttacagggtct cttatcttta caaagattgt gttcctgtta	600
ctaacctctt tctaaatcat tgggtgtgtt atttacaaga aggactgggc caaatatgtg	660
aggaaacatc aatgtatact catccctacc atttgaaaaa caagttttta gtgtgtgtac	720
cactgatgaa gtatgaagaa taacgttccc attcattcca gagtactcag gccctttgcc	780
tgggactgct agctacacat gcaaagtga ttctatatca gcattttgta aagcccacta	840
ttctcaccgt accagcttaa ctgcaaccag ttatttaata ggattctaata taatttaatt	900

00100US1.ST25.txt
ctccactggt agcaatttct gatgcacaat gtctgtgcct ttacacctt tgcacccctt 960
ccccagcact taactcagca ggttgcatat agcaggaacc 1000

<210> 84
<211> 1000
<212> DNA
<213> Homo sapiens

<400> 84
taacttggtc cagcacagat tcaaaagtct aaattctgaa gtctcaacta aatgtcatct 60
aaaccagatg taggtgagac tcaaggtatg ttatttctga gagaaattgc tctccatctg 120
tgattctgtg aatcaaatag gtaaagagct tcaaaatgc aatggtggga cagacataga 180
atcgacattc ccattccaaa agggagaagt aggaaggaat actacaaca caacaaagta 240
aacgataaat cttaggctc cagaataatc tcttttgat gccccatctt ccaatcttcc 300
aggcacactt gggcaggcgt tgggccccca aggctctggg tgtcccagtc ccagcccaca 360
tgacagcact tacatattag agccacatgc caggctggaa atgccctcta gtggctctac 420
tggtctatgg tcagagggta ggcctgctcc tatgactctg ccaagcacag ccttagtgga 480
ggctttttgt ggtggcccc cccctatgtc aattctttgc ctgagcctca agactttcca 540
gggcacccct tgaaatctgt gtggagtcag cttccctct atggtattgc actgtgtgtc 600
ctggtggaga tgatacctag agaacattac caacgtttat catctgtgcc ctccagaaag 660
gtggccactg gagccacac cacacttgga ccctctggag ccattgcctgg aatgactgag 720
cagtgtctgt tcagaaagca gggagcagag atgaggtagc atagggcagg aagtgtgag 780
ctccagtggg catcctgggc ccctcttttg acctgtttct gtcccctagg ccttggcacg 840
ctgggcctgt gatgggagca gcagccgtca tgatgtctga aatgctttta gtgggggtca 900
ttcctccatt gccttgatga aaagcacctg gcttctgcag ttccatgtta atctgatcaa 960
atggttgctg ggccacatcc ttggtattct ctcccaaaca 1000

<210> 85
<211> 1000
<212> DNA
<213> Homo sapiens

<400> 85
ccacagaaac attcttcagt agaactttaa tattactgtc ttataaaatt ctgtcaaag 60
aacaagaagat aaccataat tacaccctaa tatgactgct tttaacattt tactgtattt 120
cagccttttt gctatgtata taattttaca gagttgtaat catacccagt atatgatttt 180
atcatgtttt ccacttacc attataggta tttttaatat tgctacatag tcttcatggt 240
tgtcattggt aatagctatg ctgtaatagt tcaactgaatt gaagtgtttt atttacttag 300
ctaccctatt atctttaaac aatttctaatt ttctttttat aataaacatg gacatatttc 360
tgacaggggt gttctttttc acatcttgac ctacttttca catagtgtta caattacctg 420

00100US1.ST25.txt

accaaagaat acaaactttt tgtctcttga cgtatatattc caaaagattt ttaaaagggtg 480
 cattaatttta ctctgcagct ggtgtaaag aagaccattt tgtcattgtt ttcttgagag 540
 tagagcttcc aaaagtaggg atatgtggct aggaggaaga aatccagcct ggggcaggca 600
 ttctgtaaag aactccagtt ctcaactggta cactggtttt atttttctct gtttcttgca 660
 gactgagcaa ttgataactc tgtgggtcct ctttggtttt accattgttg gaaactccgt 720
 tgtgcttttt tccacatgga ggagaaagaa gaagtcaaga atgaccttct ttgtgactca 780
 gctggccatc acaggtaagt aactatgcaa gtgagaggca ggaagctata tgtgaagtcc 840
 ctatggcttc ctgcttttaa tgaattttat caaaaaaaaa aaaatgtaac gcatcgggtca 900
 atttgggaat aatttctgaa agaataataa acctatattt gaatatttcc tctggcatac 960
 ttaacacata tgaatgcctc taagatttca ttataaaagt 1000

<210> 86
 <211> 1000
 <212> DNA
 <213> Homo sapiens

<400> 86
 aataagcaaa tctattttga cagaaagatt catgattgct cctggcagca gggggtgagg 60
 aagttggtgg gaaatgggta cagagattct ttggcgatg atgaagacgt tgtaacagct 120
 ttgaatttt acaatccaga attctattct ctgctaatta gtcaaataaa gggcagaaaa 180
 tatacatttt aaaaacacaaa gatgcagaca ttacattcca catacaagag gatgtacccc 240
 agcaaaacaa ggtgataaac caagaaagag aaagaatggg atccaggaac aacagcttca 300
 acccaggata acaacaaagg gaactactcc agtggttaaca gctgggcagc cagagagaca 360
 gcatgtagtc ctcatggaag cagaaagaca gagggttctg agacagagggt ctccaggaaa 420
 aaaaaaaaga acctgactta ctggataaac aagtccttag tttaaaaaac aacaaaaaac 480
 tgtatacaca tatatatata aaatcaggta gtataaagaa aaacagaact ccagagattc 540
 ctgggtcaca gaaggggaaa gggctgttca agaaagtga attgaactaa ctgaaaatac 600
 agctatcttt atattggaag gacagtcagg aagtcaacag ataaggccta aactgcataa 660
 agcaggaaac agcagactaa agacattatt aagaaatatg gaacacaacc aaaagaaata 720
 gcaaaaacaa tgaagagtga ctgtttttca taagtgaggc aggggaagag aaggggttat 780
 ttttttcccc attatatgtc ttaagaact acttgctaaa aatattgggc acatatgaat 840
 ttgataaaag cgaaaaactt ttacttcac aagtgcagct ttaacatacg ttgattacag 900
 tgaagttttt gttctgttaa ccactttagt aggatttgct taaatttagt gatttacaat 960
 gcctgcagta gaatcagaag atttactg aagggttat 1000

<210> 87
 <211> 1000

<212> DNA
 <213> Homo sapiens

<400> 87
 ccttctcttt cggttatctt agtcagcctc tttttatcgc tgttatcaca gatatcccca 60
 gagaccactt gttatcataa ttgctaata tttcacaaaa gatgaccatt tagtttttaa 120
 ttaaactcta taggacttac actctcattt gttaggcaag gaaattgagc caggtcaaatt 180
 taagtaaatt gcccataatt ctactgttt ttccaagtaa ttttaagag tgacatccag 240
 aaaaactgtg acttctagga atacatttag aaaaacatat accagagggt ttaattgcag 300
 cattgttttt aacagcaaaa attggaacta aatacacatc aattggatac agataaataa 360
 agtatgagat attcatggac cagaatcctg tgctgtaatt gaagtgaatg aactggcaat 420
 gtgtgcacca gtatcccca attataatat ttactaaaaa aagcaaatg ctgaatgatt 480
 catgctgtat gataacatta tataaagtct gagaacatga aaagcaactg caaacataga 540
 ttatagctgc ataaataaat aataatagta taataaacat ttgtaggaat ggaatagaga 600
 aaaacattat gagatccaga gtgccccaaa aaaacctgcc cccatatttt aaatcaacca 660
 ttttctcatt taacccatt tttctctatc acttactatg tgactagatg ttctttggtt 720
 ttgttaaaaa aacatttccg attccttaac atacctaaaa atataataaa ttattctctc 780
 attattttct tctacataat atacaaatta cttcaaaata cgtacacaac ttactttcac 840
 ataataaat ctaacacagt ggcttttctt aggtatgcat tctactaaaa tcatatattc 900
 ctttctctaa taataaaaaa attatatgac ttataattat atactaccat agctgggcta 960
 tcatagtagc ctttctttt aatataaata ctttgatata 1000

<210> 88
 <211> 1000
 <212> DNA
 <213> Homo sapiens

<400> 88
 gggacatttc atgctgggga acatttttagg caaatgtgcc ccaagacctt ttcgataagg 60
 atactccagc gaaacaaatg agactgttac aggaggcagc actgaggcag ggcagggtggc 120
 attggagaac atgcacacca ccccatgggc accgtgcaac accacccacc acccatggaa 180
 gtggtgacaa cagtggggag gggaagcctg tcaagcagat gtcaccaggt gcttcaagca 240
 gtgttgtagg tccctgctta taggtgccag gccaaactcac ccaccttcct tcgactcttg 300
 gaaagaaaat agtggaggtc tttctaaatc atgtgagaca ataactcccc cagagggtgcc 360
 atcctctaga ttccagggga taaagacgag cacaagaagt actgctgagc actttgtgtg 420
 ggatgtgtgt ctaaacacga caatctgaag acagagggtg agaaattggc aagtttccta 480
 aagcatgaca acacacccc aaaactcttc cataatgatt ccctttttcc ctgtattttt 540
 cctggatgca ccactactat gggaaccagg atggttactc ccaattccct gtcacccacc 600

00100US1.ST25.txt

```

gcttatttaa taaacgattt ctactttact gaaattgatg cttcgttttc ttctaattcc 660
attctatact ttacctctgc tctgagttac actgaattta taacccttct tttaaacaga 720
agtcttgcaa gaacaaacta cagcagtatc agcaaccaac aatgccacca atacagatta 780
aaaaaacatt cttatctgag gccaggtaac caaatttatg caaaataact caacagatgc 840
tggtcagtac tagctgacct atgaatttaa gctcttactt ggaagaaata caacccaaag 900
aggagagaaa ggaaaaaat gagtctcata ttaacatata ataaacctt attaactgat 960
aactccataa attatgagtg gcaatcagat agataattca 1000

```

<210> 89
 <211> 1000
 <212> DNA
 <213> Homo sapiens

```

<400> 89
tattatgtta ttgtgtaatt atttgaatta ttgtccctt tccatcaatc ccccaaacac 60
acacatatta ggtggaaatc cttaggggct gagatgatgt tttatttaca tctgcatgcc 120
tgatgttaag ccagtgctg ggcacgaatg cgatttagtg agtgtttctt gaacatgaat 180
aatgaattca ccagtgaag catgagtgga tctgggggg gcacaaaagg ctgactccag 240
gttccaggaa tctgggtgga gaaacttctg ggctggagg agcagaggac cactgtgtta 300
ggctctacgtg gttctggctg gcagggttag caaggatgca gaggagtctt tgggtcttgc 360
tcaaatagata atttaaaaca acaataataa ttaacattca tttagtctt actatgtgtc 420
agtcccttat tgccttctat gtattcagcc actaatctc aaaattctag gggttagata 480
ttttccggt ctatactata catatgagaa aaagggtaga acaggagggt gcagaaactt 540
gccccaggat acacagcaag taaaatggga actgggattg gtcacctagg gattcttggt 600
tttttagattt tgttttttta atctctctat agccccttag gttatttatt gatattttta 660
ctttttattt tgaaataatt gtagattcac aggaagtac aagagagagg tcctgtgtac 720
tcttcaccca gatttctcca atgcttagat ttatataac tgtaatacaa tatgaaaacc 780
aggaaactga tattggttca atatatgtgt atacttctat gccatttcat catgtgtaga 840
tgtaaccacc atcatgacca agctgcagaa ctgttccatc accacgaaga tctgccacct 900
gttgctcctt taaagtcata ccagccctct tcctgtccc caccactgt cactatgctt 960
aacccttggt aaccactaat ctgttttccc atctctatag 1000

```

<210> 90
 <211> 1000
 <212> DNA
 <213> Homo sapiens

```

<400> 90
atgcatacac cagagccgac ccgcagactc tgcaaccag gccagctgc acggtcagtt 60
tggaagtcta cacaagcatc tagaggacct ggacacaaac agggctaatt cagggtgcca 120

```

```

attcatgtcc caactctgtc ctgtcaggcg actaaggcag ggctctggga atccagggac 180
aggtggagta actcgtacac agtcagtgtg ggagtcttag caggtgactg ggtcctgccc 240
ggactcgtgt gggatggagg gctgggtaaa ctcatgctg caataaaagg gacagaatct 300
cagtgc meta gagactagaa aaaatgttag gttccagag agaggctgga attcagaggg 360
gaagatggaa gccatttga tatagtagtg gtgaagatgg aaggtggccc ctgccgtgag 420
gaagacacct gagctatgaa gagtggagta taagcttga accagatgtg cacataccca 480
gagttcatgt ccaacatata tcaaaatctt tgcaaagtct gtgtggatcc ttaaaaactg 540
gggagggcag agccagcagt gggcaggtgg ccccccactg gaggaatggg attatagagt 600
ccaggagtga ggcagcgccc tacagttagt cctcatcctt ccattttcca cacttccagt 660
ttcctttcaa ccacttcaga aaaaaaaaa agtccagaaa gtctaattgt gccaaagtta 720
gaaaccaggt cgtcattagt gtgagtggaa tcaacgttga ttacagtctg gtccttttca 780
agtttctttg atatcttcaa aagcccaatc atcctgttcc atctaggaca ttaagaaaaa 840
tacacccaaa gaatagtctt tcaagtacat tgccaccgta gctagatgat tattatcctg 900
actattaatt actattatga ttactgttgc catgggtttt atgtttttct gtgtgcccac 960
ccaatccac atccagccac cacagccact gctgggtttt 1000

```

```

<210> 91
<211> 1000
<212> DNA
<213> Homo sapiens

```

```

<400> 91
tattatgtta ttgtgtaatt atttgaatta ttgtccctt tccatcaatc ccccaaacac 60
acacatatata ggtggaaatc cttaggggct gagatgatgt tttatttaca tctgcatgcc 120
tgatgttaag ccagtgctg ggcacgaatg cgatttagtg agtgtttctt gaacatgaat 180
aatgaattca ccagtgaag catgagtga tctgggtggg gcacaaaagg ctgactccag 240
gttccaggaa tctgggtgga gaaacttctg ggctggaggg agcagaggac cactgtgtta 300
ggtctacgtg gttctggctg gcagggttag caaggatgca gaggagtctc tgggtcttgc 360
tcaaatgata atttaaaaca acaataataa ttaacattca tttagttctt actatgtgtc 420
agtcccttat tgccttctat gtattcagcc actaatctc aaaattctag gggtagata 480
tttttcgggt ctatactata catatgagaa aaagggtaga acagggaggt gcagaaactt 540
gccccaggat acacagcaag taaaatggga actgggattg gtcacctagg gattcttgtt 600
tttttagattt tgttttttta atctctctat agccccttag gttatttatt gatattttta 660
ctttttattt tgaaataatt gtagattcac aggaagtac aagagagagg tcctgtgtac 720
tcttcaccca gatttctcca atgcttagat tttatataac tgtaatacaa tatgaaaacc 780
aggaaactga tattggttca atatatgtgt atacttctat gccatttcat catgtgtaga 840

```


00100US1.ST25.txt

tgtaaccacc atcatgacca agctgcagaa ctgttccatc accacgaaga tctgccacct 900
 gttgtctcctt taaagtcata ccagccctct tccctgtccc caccactgt cactatgctt 960
 aacccttggt aaccactaat ctgttttccc atctctatag 1000

<210> 92
 <211> 1000
 <212> DNA
 <213> Homo sapiens

<400> 92
 tagtttctct ggtctgcctt ggggaagaaa ggagagcagg agaaagaaag gtgggagaag 60
 gccagaaaga ctttgtttct gaagctcttt cagtttcctt cagttcaaag cactcatcac 120
 accaagacac catactgtgg ggtatcacat tctgagccct aacacttcca atattatgct 180
 atgaatttac atcatgattt caggtaatta ttccaacaat gccacaagggt gagcatttgt 240
 gttatccagt ttcacagatg cagaaactga agtggaaaaa attgactagc attatatggc 300
 tggcaagtga tcaaacagga ttttctcatt atttcattca ctcaatagtt attgagctca 360
 taatatatgc caggcattat gtcagacttc atggatacag acaggtagac agtaaacaag 420
 gtggccactg cccaaatgga gcttgcattc tgggtgggaa gacagataat aaacaacaag 480
 aaagaagcaa tataacagat tgggacagtg ctattaatat aagtaaatga aggagggata 540
 tcatacaggag aatctgggaa ggagtggatg ctacctgaga caggatgggc aaggatctgc 600
 ctagttgcaa agcactagac ttccacaac cccttctacc ctccagtggg cctctgcagt 660
 atatatggca accaattctg gtttcatgta ttctaccact tactccaact ctagtaata 720
 tctgcaaagc ttaccattgc ctacgactct cagattattt cccaagatg ctgcagaatc 780
 cttataatgt ttctcagcct caatagaatg aaaagcagggt ctgtgcttat atcacttaat 840
 gaccaaagag gaaggaaatt tacaattaaa gtgtactttg ccaactgtgg atgaattagt 900
 taggtcactg tgatctacag gttagatgtc tgttcagcag tgcctctac ttgagattcc 960
 aaggaggttg aagctcacta ctcgccaccc ctcgcacccc 1000

<210> 93
 <211> 1000
 <212> DNA
 <213> Homo sapiens

<400> 93
 atcagcgaca ccactctggt tgtcatccct gagctgtggt aagtaggcac ttcccctaag 60
 agagttaaag gggcactcgt gagatactaa gaagactcct tccccagcc ccaggcctcc 120
 ttgtaccttt tgcctcttca ttctgtctgc tgccttctgg gaaatgatgg gactggcagg 180
 ctgtactatg cagcagggat agcagggtg tttgtctctgc cctcaggaag gcagataacc 240
 cctagaaaca ggaagagcca aatgaggttg tgtaagtctg aggcagaaac attagtcgtg 300

00100US1.ST25.txt

```

agagcaagac ttgcatttgc aagagccagg ctgtgtgtgt gtttgtgtgt gtgcgtgtgt 360
gtgtgtgcat gtgtgtgcac gtgtgtgcat gtgcgtgtgt gtgtccgtgt gtgtgtgtgt 420
aaaactggat ggccaagagc caaccctgg agggcacgga gacagggag aaaacagagt 480
gaaacaaaaa tatttgtgta gaaggcataa aagttatcat cacagactcc actgtgtaaa 540
ggcataactt gctttattta tctctagtgt atatgaactt agcctccctt tccattcagc 600
ctgtgaaagg agatagtgtt tgggccattt ggtagaagaa ggggatggga gatgatcaaa 660
acccaagta aggttcatat ccaatatagt gtctaagcag caaatgacta atggccgaag 720
aaggagacta gacagaggat tagaggcagc catggggctg gtgcagctgt ggagagctct 780
gagcaaagaa acaaggtttg caggtgagga ggcctaggat agaggccaga aggccaaacc 840
tggggctgtg cagccagtgg tcatggtggc acagcaggca ctggctgggc attggtggg 900
catgcagatg cccaaggcca gctgtgccac atagaagccc tgaggaaagt agggtaatta 960
accctgaac aaccagatc atcttcaggg gaacagccag 1000

```

<210> 94
 <211> 388
 <212> DNA
 <213> Homo sapiens

```

<400> 94
ctgtgttggg ttcctccagt ggtttgtgga tggagatcat ggggtgtgtt agtccatttg 60
cattgtata aaggactatc tgagcctagg tagttttaa tgaaaagagg tttatttggc 120
tcagggttca gcaggctgta caggaagcat ggccctggca tctgcttggc ttccggtgag 180
gccccaggaa gcttccaatc atggcagaag gtaaacggga accagcatgt tacatggcaa 240
gagggaaaag aagagatggg ggaaggtacc aggccctttt aaacaatcac atctcacatg 300
aactcttttc tttctttctt tttttttttt tttttttgaa atggagtctt gctctgtcac 360
ccaggctaga gtgcagcggc acagtctt 388

```

<210> 95
 <211> 662
 <212> DNA
 <213> Homo sapiens

```

<400> 95
atgttaaaat aaatattcat atatgcaacg gcaggacttt aaaaaatata cacaatatag 60
aaaacaaaag agaccattcc agaagtcaac aagaaaaata agtttagttt tacaagaagt 120
tcacgatctc gtccttattt taccacgtgc tagaatttgg tgaccaagt accagaacat 180
tagttttagt aatagtaatt tttaaactaa attttagcaa cagaacatta aaaaaaatt 240
atctggcagc tgaatacaaa acgcaacaac aaaacccaaa acacaaatgg agctactcta 300
gttagagtca gagaggcaga tctctgaacc atgcctgcct gcacacaact caaaaaacta 360
gtaatgtaga gtgatttctc aagcctcttc tggtagtcta aacattacag attcttctga 420

```

ctaaaaagag aggcaatccc tgagactctc catagaaacc ccaggctctg tagaagccat 480
gaacatttgg tattgagggg ggaggcaaca gagtctccag ctgtagtttt gttttgaacg 540
aatctggaag ataaactgaa aaacaattta aaacaaaaag actttttaa atgaaatgta 600
aagttgatgt gagatgttgg aataaaaaatg aaggccattt caaaaccac cacaggcaga 660
tg 662

<210> 96
<211> 644
<212> DNA
<213> Homo sapiens

<400> 96
cctgcaaagt ctcttctctg tgcaccttc ttctgaaacc attaatacc acgacccact 60
gaatgaagcc caatctcaaa tcacagtga aaatcctgca acgtgcaggg tgatgagtgt 120
ttacattagc tgaaatgaaa tgatgtaata ccagaaatcg agggagggct gcgatccaga 180
gtcaggggcat tgcaaaaacc tctgtgaaac ataacttttc tacattacaa aaaaatgtcc 240
ttgcgtttta gtaatctggc ttctgtaaat ttaggattac ttggattttt ctgatctcat 300
caatttgttt tccaaataga aattcagaac ttcccaatta ctactgttt tagtcaagtt 360
taaaaaaag ggtagcaaat agaaccctaa gtgtatacat gtgcaaaga cccagtatca 420
agggaataat aatagaaggc agccatccag gtatgtgggc acctgccatg ctgcagaata 480
gcagagcctc ccaagggtct aagtgccttc aaagttaaag caactcctaa gaaagacagt 540
atttgtttaa gccagtggcc aatttttctt cctataactg atgatgaaca agaaaacca 600
ggagttccta gccctattat tgatgggcaa ctgctattga ttac 644

<210> 97
<211> 582
<212> DNA
<213> Homo sapiens

<400> 97
acaaggtcgg tgtacacccc ctgtgattct gggagtaata tcttctctc ccttggatat 60
taggaacaat atcacggcgg ggggtggggg tgtgtacagc ctctgcaata ttgggagtaa 120
tateatcctt tctccccact ggatattagg aacaatatca caggagggtc ggacaccccc 180
tgcgatattg ggagtaacat cattttcttt tccagtga tattaggaac aatattgcat 240
tgggggtgac accccttccg acattaggag taatatcatc ctctccaca gtggatatta 300
ggaacaatat ctgagaagga gtgtagaacc cctgcggtat taggagtaat atcatcctct 360
ccctccctgg atattaggaa caataacaca gggagagtat acagcccctg tgatattgag 420
agtaataata tctctcccc atctgaatat taggaacaat atcagggggg tgggtacac 480
catttgcgat agtgggagga atatcatcct ctccccacct ggatattagg aacaatatca 540

00100US1.ST25.txt

caagtgaggat atacaccccc tgcgatattg ggagtaatat ct 582

<210> 98
 <211> 502
 <212> DNA
 <213> Homo sapiens

<400> 98
 tattttaatca tataatacta aatatactgt attcagaagt tttttgtgtt ttagtcaggt 60
 aagatgcagg gtgtagaggt gttaaccttt ctttaaaatt ttaatggcta gatattctga 120
 gatctgtctg atgtaggagt ggaaagtggg tggttctttt cttccccatc ataaaggctc 180
 acagctgata cccctataaa gaaagactgg ttaacaagag aaaagcaca caaatttatg 240
 aatgtgaata agtatgagag ccatacaaaa atatgaaaat tcaaagaaat ggtagacga 300
 ttgatgctta actaccttct tcattaggga gaggaagtt ggggaggag tgggggagtg 360
 gggaatgggg cccctccat ctccaggagt ggataatggt ttgtaataa ttctgtttgg 420
 acactgaatg gagcggaatg gaaaggacaa acaataggaa tgtgaggggt ggaactgcat 480
 ggtgaacaaa ggtgtctta tt 502

<210> 99
 <211> 541
 <212> DNA
 <213> Homo sapiens

<400> 99
 ccgaagccga aaagcttga aactggccca agtgggaatt tatatccctg ttctcctgct 60
 ggaatgttgc cttttcctaa accacccatg gtcccgccct acaccatcct gtacctatac 120
 aaaccccata ctccagccagt agacaggact atggttgagc attggagaga agcagcttga 180
 tggcttaaca ccgaagaaaa atccagccag agacggccag aacttccggg gagggttacg 240
 ctaccgaccc tgtctccttc tcagctcccc ttcttgccga gagccacgtt tcattcaca 300
 taaaatcccc cacatccacc acccttcaat ttattcgtgc aacctcattt ttctggctg 360
 gtggacaaga gcgaggagc cacaggtgga gatacaaaaa gctgtcacat tggcccttg 420
 cccttgctgg cggagggcag ccgcctcaca cagaggcaga gggccactg aactgttaac 480
 acttaagcca tctgcagatg gcagagcaaa aacagcactg gaacatgcc tctggggctt 540
 c 541

<210> 100
 <211> 610
 <212> DNA
 <213> Homo sapiens

<400> 100
 atagagacga agttaaacac ttaatttgca aaactactga gaagtaaatt tcttgttcca 60
 aggtaactgg agtaattgcc aatgcagat aaatcctccc cctgagtagg aagccccaca 120

00100US1.ST25.txt

```

ctgttttgaa aacaattcct agactttgcc cctgttgaag ctgattgaat gctcaaccac 180
aagactccac tgttgtttagc tctcgcttac tgcttttagg ggcggagtta acacttttca 240
aaaatccgag cttccctaataaatacaggg atttagtgaa gattttgatt gtctgggggtt 300
ggcattcctg aggacagaat aattttatgtctctaaagca ggtgtgttat gagaacagag 360
gctatgttga taagagatcc ctgggagctg gtaatatatt atcttctgta atttcttcca 420
aaaatagact taatggaaag aggatgcata atataccccc tctcaaagga agcgttcccc 480
aatacaacag aagcagtcatt tctaaaaaca gctttatggc tctgcagtca ataactctat 540
tttctcccct ttcacaactt ccttccttct gctatgtaag aacttatgtg agggcacaca 600
cacattcacg 610

```

```

<210> 101
<211> 524
<212> DNA
<213> Homo sapiens

```

```

<400> 101
aaaaaaaaa acccccatga tatggatatt gttatcattc cttttctcac aaatggtaat 60
attgaaatta atagaggttg tatatcgtgt ccacagtcac acagttagaa agcgtcagag 120
ccagggtttg aactcaagta gcctaactat agaaccata tttttaatca ctatacagta 180
ttttactatc tgttccatca aaagaaatca tttttcagag tggagatgat agaacataca 240
tgagaacaag agtatttaaa tccaagatac ctgcaaagca tctagacact ctagatttag 300
acttttagct ccttggccaa gattaattac ctttcaggaa aataaaacta cataccaatg 360
agatcactag acctctcgca atgatctatg aagaataatg ggaacagcta tctgggtatc 420
taatgggcta gagtcagata aatggtttct caatagattt ccagaataat ggggaaattt 480
ggttttgcat taacaatagg ctacgtatgt tatattcatt ctag 524

```

```

<210> 102
<211> 677
<212> DNA
<213> Homo sapiens

```

```

<400> 102
tcctttctct ctttcaatcg tgtggagaaa ataattatca gttgggaacc atcatttttc 60
tactaccatg aatgcaaatg tacttccatg acccatcttc ctttacgaat aaagttacaa 120
tataagaaat accactacac atatctgagt ttatctttta actgtctttt agagcccatt 180
ctcttctgcc ttactagaac ctctactatg gattatccct ttaccatagc attgtcattc 240
tcttcctttt aatgcatttg tttccactg atttttaaac atgattgagt cattttcatt 300
agagactaaa taaacatcct cattacatgg ttcactagga ccaactccctc ttcagttgtg 360
tgagaaacta agcttttaga aagagacgtc caaactcagt atctctatct ctgcatgcca 420
cacaaatcca gtttgatttt catcctcatc agtctactaa aagatgtcac taaggacacc 480

```

aatgaattcc aaaaaagccc ctgaaatcca atggaaattt gacatttttg accactttct 540
 ctttcttcaa acattcttcc cttagttttc caagatagtt ttcttctttc ctttctactc 600
 actctatttt gatcttcttt gaaaattcat ccacctctac ccagtcataa aatgttaaga 660
 gttgaggggg gcagtcc 677

<210> 103
 <211> 428
 <212> DNA
 <213> Homo sapiens

<400> 103
 caggctaaat atcataaata aaacatctct catttctgtg aataggaaaag cacacttgag 60
 tgaagcacag acatgacagt tgagcatgta agagatccat tgggtgctac ttgagaaaagc 120
 agttggactg cattctgggt ctctctgaag ttgctttta ggcaagtacc agatggattg 180
 tatttttagaa aagatttgtc tggaacattt cctgatgtca ttatccagag acaatgagac 240
 aactcatttg cttatgaggt ttttactaca gcaatctaga gatggaattt ccaatggaaa 300
 taaaaaaggg tttttataat ttctatattg aactggcag ctccgccttt taaaaaatta 360
 gttcctttta atgaatgtat ttggggagta gattatagtg tatttagtaa attggcactg 420
 tgtttaga 428

<210> 104
 <211> 657
 <212> DNA
 <213> Homo sapiens

<400> 104
 tctcattttg aaaatgtaag tggatatcac tactgcattg cctggaaaac ccacgaggaa 60
 gataatgcc aataaacag ggaggtagtg catcttgagt gggatgtttt catcagtgca 120
 atttccaaaa gcagctgcat aatcggggaa atcagaagca ttgctaaat agtctagtgg 180
 ctcatctatg gttgtctcct ttcatcttgc aagaaaacaa gagagttcag ttgggcaata 240
 tgaatcaaat gagcagtaac tcgctgataa aggaaaacag aaaacattaa tgatagggta 300
 ataaaaacaa ggatctactt ttaaatgaaa attattctaa catcctaaat ttgccacttc 360
 tctctcttta atctcaaaaag agaccctgtg gagaagaaat tgaatttcca agaaaatgac 420
 tatgaggcaa gttactaaat gcactaata aaaatataaa agttaaatta ccatgagagt 480
 taaaatgagg gattgggaga aaaaagccac atgtcgcttt ggaaaacaat ttggcaaggt 540
 caccatttgg agaagccata gggatatgcc attagagact taacaacagg acctactatt 600
 aaccaagtgt gatgcatgcc accatcactt acttctacat gtcacaaaat actgaaa 657

<210> 105
 <211> 533
 <212> DNA

<213> Homo sapiens

<400> 105
 ccacctgctg tcctgctaga cgtggaaaga ttcgcagcaa cagagcaggg aaaatgagtc 60
 aaatggaggc caaaaatgag aactaagaga tttgtgagaa tattcaagca aggcaaggag 120
 aaaataagag aaggaaagta aaatatagcc acaagcaaaa gtggaacaa aatgcttgat 180
 atgaagtcct atttaccagt gataagccac atggatagtt agttatgagc ttttttgtaa 240
 tcaacaggaa aaggaaaatc acaattttca agattcccag tgtctctaag gtataaagcc 300
 caagtaattg gagagaagca caactatttg tggaactaag ataaaaatga attgcctcta 360
 gtcagttttt gaagagccac ttgtccaggg tctcacagct gctcgccag aatttgaacc 420
 ccaaccacat agttccagag cccacattct cagacatagc cccaatact gcctctgggc 480
 tggagctggt attctcaata actgtttgtt gagtggatag gtgaatcacc att 533

<210> 106
 <211> 595
 <212> DNA
 <213> Homo sapiens

<400> 106
 tatccacata aatgtgcatt ttcttttggg caaaatgag gcagaggtgt catgtgaatt 60
 tttcattcct tcacacaacg atagtctctc aaaaaacaaa gaacaaaagg aaacatatgt 120
 tcacagtggg aaggattatt actcgatcat ctgtataagc atggcccaag ggcctttgc 180
 caacctactg gggatgtcac alylaaaaag gtttctccaa aagggtggca atatgattta 240
 ttaaaggagt cagatgacat gggagttaag ggcagcaaac ttcattgtga tggaaggat 300
 ctaagctgct ccagcaaaat gaaaggatta tggttcacct gccaacactg tgcaatttat 360
 ggatgaaacc tcaaccacga aaagtgaac ttctttgtgt gtgtgtatgg gggtgcgagg 420
 ggagacatag gaaaggaaa gacagacagc cgtggaaaac agatatttcc cctggataag 480
 agtggaatgg ccagtctcat aacactcatg tattatagaa ttaaataata acctgtttca 540
 gaaagtacaa tattaagacc ctttttaaat cttgatattc tttgatgata tctct 595

<210> 107
 <211> 596
 <212> DNA
 <213> Homo sapiens

<400> 107
 tttcctactg atcagagtta ctgtagaatt tgatttaggt gtgtaaatta gtctgaggca 60
 cacattcagt cttaggcaac cctctctgtg atggcatgcc tcaaagcagt ggtttgaatt 120
 aggggcaacc ttcaaccctg agggacactt ggcaacatct tgaaatattt caatggtctt 180
 aagttagaaa gtgctatttg catctggtag attcaagcca gggatgatgc caaagatttg 240
 acaaaacaca gaacaggcca tacaacagag aattatctgg tccaaaatgt caatggtgcc 300

00100US1.ST25.txt

atggttgaca aaacctgaga taagcttagg gaaggatcca gcacagagca gaatgtattc	360
tctctgtaaa gaagccaatc ccaaagagaa agaagttgag taatgctgcg tatatttact	420
cactttctct ttccaaatct cttagtttga taattcactc gacttgccct ggtaaggaat	480
gagggaggaa gcaaaaaaga ccaagcttgt gttacactaa ttactgtccc tcaacagaaa	540
aacgtgaggt gaggggtaag aaagtccccc cattctcaca tctatatcca atacat	596

<210> 108
 <211> 603
 <212> DNA
 <213> Homo sapiens

<400> 108	
tttgctcttt ttctatggt catcatctca ttgaatggca ccccatctg catggtagcc	60
tgggaaatat attaaggtat tacccttgaa ccttctttct ttatcatccc tatgtccagg	120
taatctgaaa ttctgtcaga atatgcatct ttaatctatc ttaaactggc ccatttttaa	180
aaatttctat ctatcttgac cttactttac cttaatgatt atcactctcc taattgttcc	240
ctaattggcc tcataggcaa gacaaatctg ttcttatac tgcctctaga attatctttt	300
caaacacgga tgtggccatc cttctttctt acaaatgacc tcatagtccc aaagacaaa	360
tctatactct ccctaaataa cattcaaggc cctcactcac gcagctccct gattcccacg	420
tcagtatttt tgtcctcctc cccttcccaa agcacactct cacatacgcg ttattctacc	480
tggagtcata ttaagctact ttcaattctg ggctttctct tagccttcaa ccctctctta	540
ggctggtgca ttcttgggga gtgtccaat ccatgcacgt gctaccatgc acccaccttt	600
ctt	603

<210> 109
 <211> 575
 <212> DNA
 <213> Homo sapiens

<400> 109	
ctgcatgttg tctattggtc tgatccatgg gttgcttttg ctccaaggtc caggctaaag	60
gagatgccct ctcttgggga atgtcatgcc cctgctagag gtagtctctg cttggactgg	120
gcacactgct acttcgctgc tcatttcacg aacccagacc agccactgtg gggcaagcca	180
gtgttccttg cttgtcagag atgctgtact ttgcatacaa tggatgaagag agtgaacagc	240
aggggtgtaat taaacagtca accacaacct gaagccactt tccctgctaa gtggacctca	300
actcaatggt ctcatctctga aagatgtggc cttaaattctt gcttggaatg gtaattcctc	360
tctaatagac tctgctgttc tcttgccagt caagaggact gaaggggatt gaaggtctga	420
acctaggctc agtggctact gccctcctc cacagccgct ggcttccagc agacattcct	480
gatgctgatg tgctccttgg agtgctgagc tttgggggaa atcctgttgc atggtgccag	540
accctccttc cccatctcat aactccatca cagag	575

<210> 110
 <211> 402
 <212> DNA
 <213> Homo sapiens

<400> 110
 ttgtggagca gttagagaca catggcagtg tccttgagtg gctctgagtg tgggaccatt 60
 ttctaggtga tcaactcagca tagcttaccg atcagactca agtgaatgga acctgccctc 120
 ttccctttcc tcctggcttt ggaacagttg ctaccaggtg agtgggtttt cctccagac 180
 agttactgag agtaatccct gagcactcac tgggtgctg ttctgtgctg acagtcatct 240
 cattcatcct aacagcaatt ccattctgca tcttctctgg acacccccag gaccatccag 300
 gacaacctg cctgacacca ggctagtgt ggctccatga taacaaagac gcagggtccag 360
 agacaatccc cctacatggt gcctgcatct gattccccct gg 402

<210> 111
 <211> 564
 <212> DNA
 <213> Homo sapiens

<400> 111
 tcttgactc tgggccccca aacaagaggc cactcagaaa tcacagtttg agaacaaggc 60
 accattgccc cctgagcctg ggctttcctg aggcttgggt aagagaaaga gagatgagaa 120
 ggctccctgg gctacagagg tctggagaga agctggcacc tgggaagaac aatttcccc 180
 gcagctagcc aagctggggg cttccaagtg gatgcagaga cctgccctgc tgcctcccc 240
 atcctctgag agtgccttct ctgggctttt gcttcaaaga gccatctttt tccacatggc 300
 actcatcttc cttgtccttt gcttcatgac accttgagcg tgttagaagc taatcctgaa 360
 caagcataga aggggcactt ggggtaggag ctgcagtggc accacccgag aggccagctt 420
 tacctcccc aaagatccac tgcccagaag ggaagaccag gggcctccct ggtgccaagg 480
 gcttgagagt atgcatccaa tgcagctagg tcctccacac actgtggtgg gggccctcac 540
 cctcagatca gcatcttact ctca 564

<210> 112
 <211> 433
 <212> DNA
 <213> Homo sapiens

<400> 112
 taacaaaaca ctttttatca tatatgaaac tcctgtacaa tgatttggct agaagaaaaa 60
 aatagtggga aggtcaaatt tgttttaaaa catctgttca aaagcctgca ttaaactttt 120
 atctgtcctg acaaaacatg tctcaatttc tttctaaagc agctctattg tcctagcata 180
 tgcctcacca agttctttta agggcatttc caaccttagt tctgacaatg aagacacaaa 240
 gtaggttagg ttccaaaacc acccttccta gccctccctg tagaaaatac catgttgac 300

agttacatgt gtcccctgac acaaacgaca ctcatTTTtac gtaggtcact ggacctcaaa 360
 ctgttgttgc ttgctgtccc agccaattca agagtgaagg aagatgtaac cagacataca 420
 tatctccctt tct 433

<210> 113
 <211> 461
 <212> DNA
 <213> Homo sapiens

<400> 113
 cagtccaatg ctccagtttt atagattggg aaaactgaga gcctaagggg tcacttgta 60
 tagctcctat ccccaaactt acaaaacaaa gagttttaca gaatgagtca aatataattt 120
 gtttgggcta ctatttcatt ttaccatttt atccctatta gtatttatca ccatacatc 180
 aaaggaattc atacatgtag acacatctga ggtgttctctg atttctctg ttcgacctgt 240
 ggtaaaaactc ctgtggcact atagcacctt tagcttatca gtcttctttc cctcacctca 300
 tagatcagaa cttatcagcc cccatcctgg tccttctgaa tcttttgtca agtcattgct 360
 ttccaatctc tgataaagtg ttgaaaggg accattatgc ctctcagaga tacacacagt 420
 catgtgccac ctaactatgt ttcagtcagt gagggaccat a 461

<210> 114
 <211> 444
 <212> DNA
 <213> Homo sapiens

<400> 114
 ccaataccac catctgaggg tctagagaag gcttgattta ctttcatgag tcccgggaata 60
 agatctctc aaacaaggaa ttttttttta atcatggaag tatggcaatg ggcaactaaa 120
 ccaaaagtct cagtgtcct ctcagatata gcttcgctca gaaacaggca gcctgggtag 180
 agagatggaa tgtaaagtct tattaatatgc tcagctgaag tgtcaagtag ggggctttgg 240
 tgctgtcctt caggatgtaa tatatgtact aaaccagtga ccgaatacta tacagaatca 300
 gtagtaccta aaatacatgg atttttatac caaggcttag acatagaatc agcacttgta 360
 actatcaaat ggttgaggaa tttctacttc atttgtccac aattacgctg gattagaagt 420
 gtttgcaccc ttgcatctgt gtgt 444

<210> 115
 <211> 473
 <212> DNA
 <213> Homo sapiens

<400> 115
 tttgttacia tattaataagt gtgtccaagg tccagagata gcatgtaaca ctaacaaatt 60
 ctgtgggatg gtggtgatgt caataccaag aaaagctttg cagagagctt ggggtttcag 120
 ccaagactcc acaaaggcat aggggctttg tgggagaatg gcagtcctcc tggagaagt 180

00100US1.ST25.txt

gcagataaaa aggtaaagat ctgtgagcaa cgtcatcttg agttcaggaa ttgacaatag 240
 tttggtatta gaagaagagt aagagtgtca aaaggagcat ttgtgtaatc tttcactcca 300
 gagatttttaa tctccttaat agaaagttgt ttgtattgat tgaatgatta acctttatta 360
 agaattttgt tgtctcaggc actggattag tagctttaca catttcattt aaatctcaca 420
 ttttgatagc ttctactatg gttattattt tacagaagaa actgaagtta aga 473

<210> 116
 <211> 261
 <212> DNA
 <213> Homo sapiens

<400> 116
 cctgaaacca tgggctcttc gtacctccag tgccgctcac atcttatgac acatagtagg 60
 ggcgttaata aatgcttatt aagttgacga ctatgccaga aaaaggggtga gggattacac 120
 aaagttttta caaaatctca cggtaactct tcagaagcaa aaataaaata ataacattta 180
 ataaaagtgc ctgctcaagg cctgcagccc aattccagggt ttgctccaaa tgttgatggc 240
 cttgagcttt cttgtgtgaa a 261

<210> 117
 <211> 193
 <212> DNA
 <213> Homo sapiens

<400> 117
 ctgctccatg gggatgggcc tcagtgagtg tatgtgccag gcttgaaatg gcttcacggg 60
 atggggttga ggagcaccat gaggttcacg taatctttgc cttcctctgc cagcatgtgt 120
 gccatctgca atgtctcact gagcactgag tggggcctgc tatgtgggca gtatccctgc 180
 catcttcata tca 193

<210> 118
 <211> 364
 <212> DNA
 <213> Homo sapiens

<400> 118
 atctcattgg tatgtagttt tattttcctg aaaggtaatt aatcttggcc aaggagctaa 60
 aagtctaaat ctagagtgtc tagatgcttt gcaggatatc tggatttaaa tactcttggt 120
 ctcatgtatg ttctatcatc tccactctga aaaatgattt cttttgatgg aacagatagg 180
 aaaatactgt atagtgatta aaaatatggg ttctatagtt aggctacttg agttcaaacc 240
 ctggctctga cgctttctaa ctgtgtgact gtggacacga tataaacct ctattaattt 300
 caatattacc atttgtgaga aaaggaatga taacaatac catatcatgg tgggttcttt 360
 tttt 364

<210> 119
 <211> 425
 <212> DNA
 <213> Homo sapiens

<400> 119
 agagatcttt aaaatactca aagaaaattg tcacctagaa ttgataact cttgaaaata 60
 tcttgcaaaa atgaaggcta aataaatgat tttttgacaa agaaaagctg aaaaaattta 120
 ttgtgagcag acctgtacta caagaaagg taaaagaagt tatttaggta gaaagaaaat 180
 gatatacaat aagcagatct acacaaagga atgaagatct tcagaaatcg taaaattgtg 240
 ggtaaatcta aaagccattt taaaaatttt gagtcattct aagattattg tctatagcaa 300
 agaaaaatgc tagcaatttg ttatgagggt taaaatatgc agaagcagaa gtaaatcata 360
 taatgatagc aacatgacaa ctgggggaaa atgaaagtcc actgaagaaa tgcttaataa 420
 atgtt 425

<210> 120
 <211> 438
 <212> DNA
 <213> Homo sapiens

<400> 120
 actttccttt ccaggcattt cttgatgtgg aagagattta ctgagtctga tacctttaaa 60
 ggtctgacaa gagacatttg ctgcctatgc cttctgttct cttggaggag tgctaccaat 120
 aaggttctgt caacataaca aggccacctt agctagacag gcctcttctt tcttctctt 180
 cataacctgt cttgccacta aacctgaatt accagcacia cctctttggg gccatgctct 240
 gagccacat tctttctata acctcaagta ggtatataag cttctgcgcc ttattgtctt 300
 cattctgaag gctcttatgt acatgcatta aacaaatttg tatctcctat taatgtgctt 360
 tttgcgagtt gatttttcag tgaaacttca gaggtccaac ggcagtagcc cctaccaagt 420
 tcaagatgct ccacttac 438

<210> 121
 <211> 482
 <212> DNA
 <213> Homo sapiens

<400> 121
 gtgatgtaag actggtggac ttaaattaat tttttaagg catcatggga ttttgatcgt 60
 gctatctctg tatctagaag atgtcagact catggaagtt ttgtccattt tattcccttt 120
 gcttatccat tctttcttgt ttacagaaag acttaatttt ctgtctcata tctctgtcct 180
 tcttgcccca ctatttttcc cccttctcca aaaatcccag ccccaaaaac agtctacata 240
 ttgtgaaaaa gattttctcaa accacaaggg tgatgtaact ttaggcctgt gttttctctc 300
 tcacacacac aaaatattgg atatgagtga gatttttaaaa aattggtttt taaatgtgat 360
 gaaaagagtg tcctttttcac cagaacaaaa caacccttaa tgctgaagcc tccttcccga 420

tatgggtggc ttccaaatat gaagaaatct gtgcattggg ccacaggctc cagacaaagt 480
ct 482

<210> 122
<211> 568
<212> DNA
<213> Homo sapiens

<400> 122
ccttggcagc tccaacttga acatgtaaag ggtgtattca acagacaagt gagagaagga 60
acctcacaca gcctgagtgg gcctgagata ggctgagggg cctaagcttc aattgcataa 120
gcagggctag gtcactccag ttaccaaaaga cagaaacaga tagtccagag ccgtccaggg 180
gatgctagcc actgcccagg agatgatcag agaacacaca acagaaatca gaaaatgtag 240
tacaagaaga atttgctgat aggtgcaatc gcctcagcaa ggcacaggaa actcaactca 300
gaaggcagtc tgtctgtcat ccaccaatc tctgggtcaa gtctgatgtg cactcataaa 360
gtaaaatgc actgttattg tgactgagaa aaaaaataaa gctaaaagg aagtgccat 420
aaaataagat ttactaatg caaacaaaag ccctaaagaa gtgtggtttg agcccagtg 480
cctcctctat tagcaccaac aatggatagg tggttgagtc tgtcaaatg cctctgggtt 540
tacagaaatg aaagcttggt ctgtgccc 568

<210> 123
<211> 413
<212> DNA
<213> Homo sapiens

<400> 123
cattttttac cacatatact ataagaatta gtattatatt tgattaaaat aaatgttatt 60
ttcagaggtg caattttttg ctttcagtaa gatttctaatt ttaaggaagt catttttaaag 120
gctaaattta aatgagaaaa agagcttggt gcacttggtg atccagtttg atccagtttt 180
ctctgctggt ccattttttg tatccctttt gagtttgcat tcctttttta catttttttg 240
tatagcagat ttttattttt tggtagattt gtgcacataa acttcttggt gtggaggaga 300
ggttaaattt taatagctaa tgggacaaag gtatataggg atatataggt acaaccctag 360
ctcttattct ttcttttcct ccatagtatt ctggtgatgt agggataaaa ttt 413

<210> 124
<211> 525
<212> DNA
<213> Homo sapiens

<400> 124
ccaagcaaag ttatatattgt attttatttt acatttattt tgttatattc cttttatcta 60
cttaggtttc ttctctactt ccctttttta ttgaagagtt taatgcatgt atctgtgtgt 120
ttgcttgaaa aaaaacacca agtataacat gttctatcta tgaatacttc tggccattaa 180

ctcaaaaggt actatattac agacagaaaa gcaccagaaa gcaatcaggg acttcatcta 240
agaggtagga cagcatagtt ggtaaaaata cagaccctgg aggcaaactg cctgggcttg 300
aatcccagct ttattacttt gggaaaacta cttatcttct ttacttgttt tggatatcat 360
gtctgtgaaa tggaagtaat aataatcctc tcatagcatt gttgtgaggt ttcaatagat 420
gaagtgaaga ctttagaagg gcacatgata agaattatat aagggttacc tattattgct 480
atccaatttg tcatagcaag ctaagggacc ttgggcaagt tactc 525

<210> 125
<211> 575
<212> DNA
<213> Homo sapiens

<400> 125
actgtagaa tgggctcatt caagcatgta acgcccttaa atttttcatt taaatcttct 60
gtgccttaga aatgaacttt acagtaatct ttgctttcta aaaataaatg tgtttcttgt 120
taagcattta gtctcatcac aaattctgtt ttagaaaaa acaacagaaa atagtgaatg 180
agaagggtag gagacttagg actcagcgaa ttctatctca gtgccaagac tttaaaactg 240
ggaataaatg ctacttctcc atgacctggg tctgataatt tgtctgcagg aacctgttt 300
ctagaggggtg gtgtggtaca gtgggaggaa tggactttgg agtgagatcc atgttcaaat 360
cccaagtcac ttaccttctc tgatcctcag ttctctcctc tgtaaaatga ccataatcaa 420
caccatctctc aagatttctg gtgacaaac agcatttact tctctctgta tacttcccat 480
ttctcttctg agagacagaa ttttccactt tattttaatc tataattatg taatcccat 540
taaaaatcac ccttcgactt tcagttccac aaggc 575

<210> 126
<211> 638
<212> DNA
<213> Homo sapiens

<400> 126
attgctctct tctagatttt ctaatgttgg tcggtgccct tcgtaagttg tgtacaaagc 60
tggatccagt actccaaggg tgatctgacc tcacagagca cagtgcctgg ggagtgcct 120
taatctggac ttggaattcc atcacacaga ggccaagtct ctgaccatga tgttctctct 180
gtgtaactgg ggctgtgaa acccaagtat tgtcagccag tgccggtctc cagccatgct 240
tgtgtctttt aagaagtgc agtaactgct atttgtggag atggctattc atagggactc 300
cttttctttg cctgacagag gccagtggt ctaagctcta agaggggctc tgatgccagc 360
atgtgagtca cactcacttg ctactgttct tttccagagt ttggggccac ttgttgctgc 420
acatcactac ctctctccc cctgccagc ttgcattgtc gcccttcccc atctaccatg 480
ctgtccttga acataaggcg cttctctgca ttccatgtgt ctactttgta gttatgtgct 540

00100US1.ST25.txt

gcattttgaa agagctgaat ctatgtccag gttcaagaaa gaatgctgat caactgttgg 600
 caatagatgg gtttaataata tcttatgatt ggttcttg 638

<210> 127
 <211> 573
 <212> DNA
 <213> Homo sapiens

<400> 127
 tagtctagac tctttttccc cttttaaggt cagctgatta accttaattc catctaatac 60
 cttgatttcc ctttgccatg tatgtcctgg ggatgaggat gtggatggat ctaggggggc 120
 cgggtattctg gctaccatag ctatcttgct ctttttggtt ataattatga tatgttccaa 180
 aaaggagtaa aacgtaatac aagaagataa aaatacattt accattaagt aagaaaaaag 240
 acaagggaga agagaataag aaaatgagtc aggagtggga tttatacaaa aaattagtga 300
 gtccacttta cttcctggaa gtggatggg agcttttctt gccagccttc ttgaagaggg 360
 aagcactgtc agttatgttg tagtgtgtcg atctagtaaa atccaactgg ttgttcagat 420
 acctagatga atattcttga taggaagatg aaaaaaaat ttcttccaaa gtcttcatgg 480
 atacataaag tgtataatga gcaaacctt tgacatgtt acagtaaacc caatgggtgtg 540
 tttcacctgg cctttctctt ctttcgttta ctg 573

<210> 128
 <211> 461
 <212> DNA
 <213> Homo sapiens

<400> 128
 catctattcg acgaccttga gttaccgctg agacatttct gaggcacaac actaagaaaa 60
 cgcattgaat tgtcaagcgt ggcagggcag tattgctctc aaagtccgt ctgactgaca 120
 gggcagaggt tcttcctcac tgcccgaatc tgcttcccga cagctccagg gttccctcag 180
 gaagccgccc tccaccttca cctcaggcat gtcctgcaga gccctctgga gaaccagctt 240
 caggttctgc ctattttgac gctgcctaaa ggagcccacg aagaagtaaa tgacgggggt 300
 ggcactaccg tttagaggag acaggaaaat ggaaactaga tggacatgac agaaaatgac 360
 ttccaaatcc aggtgtatcc cagtagacag agcccaccga atgccgaagg gcaggctgcg 420
 gagtaggaag actagcactg tgagcaggat cgtcacgtac a 461

<210> 129
 <211> 655
 <212> DNA
 <213> Homo sapiens

<400> 129
 tcactggaga agcctagtca cctgggcaga atatcttgaa cctaggataa gttcatccat 60
 ggtagaccaa ctctgtgatg gagttatgag atggggaagg agggctctgg accatgcaac 120

00100US1.ST25.txt

```

aggatttccc ccaaagctca gcaactccaag gagcacatca gcatcaggaa tgtctgctgg 180
aagccagcgg ctgtggagga ggggcagtag ccactgagcc taggttcaga gcttcaatcc 240
ccttcagtcc tcttgactgg caagagaaca gcagagtcta ttagagagga attaccattc 300
caagcaagaa tttaggccac atctttcaga atgagacat tgagttgagg tccacttagc 360
agggaaagtg gcttcaggtt gtggttgact gtttaattac accctgctgt tcaactctctt 420
caccattgta tgcaaagtac agcatctctg acaagcaagg aacactggct tgccccacag 480
tggtctggctg gggttgatga aatgagcaac gaagtagcag tgtgccagc ccaagcagag 540
actacctcta gcaggggcat gacattcccc aagagagggc atctccttta gcctggacct 600
tgagagcaaaa gcaacccatg gatcagacca atagacaaca tgcagccctc atcta 655

```

```

<210> 130
<211> 657
<212> DNA
<213> Homo sapiens

```

```

<400> 130
aagagttaga gcaggatttt accttgtttt acaaaaaaga aaagtttatt ttgaaaaaaa 60
ttccaacctt gcctcctccg aactatagtg aaaagataat tttccacatc cctttgttca 120
ggaaatgagg acacagtggg gtcattgggt tttgattgtc cacttggaag aggttaaaac 180
ctgtcctaca gtcattgatga cttcagttcc atttaagtgg ggtcctgtct ctctcactct 240
ccaccgactg tacctttact ataacatggc cttatataga tagctttgag taagtgtgtg 300
ttaaatgact gcccgaagtga atggaaaatt gagaagggcc tccagcactg gagtatggaa 360
aggagcactg ggttcattga ctctttggat ttctcccttg ctacgtaagt ccgttcctta 420
aaggacatgg atcttgacag tgttggaatc ttcagaaata attgcaatac cagaagttat 480
ttaagatttt accattttca aagtatttgt acgtaacact ttcatatgtt ttgtttcct 540
agctacctca gtttcctgtg tggcttgagc agattagtgt aaagaggtgg tgacatcagg 600
ggaaacaggt ttactcagcc atcttcatta ccatattatc actgacttga ggctcct 657

```

```

<210> 131
<211> 566
<212> DNA
<213> Homo sapiens

```

```

<400> 131
tagtcgctgc tttctgtttc cgcttaaaga tggagatatt ttttcotttc atgcttgagg 60
agtctcgaaa gttttgcaca ctcttcacc tcttggaact tcaactgtgcc attcaggggtg 120
actactgctg tctggtcca ctcgagggaa gccaggtaac ctgtgttagg ccgcgctttt 180
cctggcggcc ttgtaaatct gttagtacat gaaaagcatg acgcacatgg ggattaggat 240
gccaatgcgg tggagtaaatt cgtgtagcca aagtcttgac tgaccaagca caccttatca 300
tcgtttacat tctgagcccc accaaaaatg gtaggtaaag tgacaaaggc ggaaagaagg 360

```


cagacagaaa gaatcatctt cgtcatgcat ttcccccttct gcctcatagg gtacgtgaga 420
 ggcttcatga tcccaaggtc cctgtcgatg ctgatcacgt acaagggtcaa gatccaggcc 480
 gtgcagcaca tgacattcac ggagaagacg ttacagaaaa agtgtccaaa gatccacttg 540
 cccccgatga ggtcgggtgac actgat 566

<210> 132
 <211> 575
 <212> DNA
 <213> Homo sapiens

<400> 132
 agtggttacag ctgggcagcc agagagacag catgtagtcc tcattgaagc agaaagacag 60
 aggggttctga gacagaggtc tccaggaaaa aaaaaaagaa cctgacttac tggataaaca 120
 agtcttttagt ttaaaaaaca aaaaaaaact gtatacacat atatataaa aatcaggtag 180
 tataaagaaa aacagaactc cagagattcc tgggtcacag aaggggaaag ggctgttcaa 240
 gaaagtgaaa ttgaactaac tgaaaataca gctatcttta tattggaagg acagtcagga 300
 agtcaacaga taaggcctaa actgcataaa gcaggaaaca gcagactaaa gacattatta 360
 agaaatatgg aacacaacca aaagaaatag caaaaacaat gaaaagtgc tgtttttcat 420
 aagtgaggca ggggaagaga aggggttatt tttttcccca ttatatgtct ttaagaacta 480
 cttgctaaaa atattgggca catatgaatt tgataaaagc gaaaaacttt ttacttcaca 540
 agtgcagcctt taacatacgt tgattacagt gaagt 575

<210> 133
 <211> 651
 <212> DNA
 <213> Homo sapiens

<400> 133
 aaaggtgaca gagaagtagg tgaggaattc agtttttaaat ttattcattt ttaagttgtg 60
 tcaggtctcc ccaagattat ccctcgggtc tgtgattcat aggacttagc atatagttgt 120
 attcacagct atgacttatt aacagaggga taccgaagca taatcagcaa aaggaaaaga 180
 tgcattgagga aaagtctgaa gaaaccaggg acagcttcca agattctttt ccagtgaaa 240
 ttacacagga tatgcttaat tctttcagca aggaattgtg acaagacatg tgaaacacta 300
 cctgccaggg aagttcctta gtgactcagt gcccatggtt attattgggg actgggtcacg 360
 tatgccctct ttgcctcata cttagagaat tccagttcca gaaggaaagc aggtattcag 420
 tataagccat attatttgca tagaccagtt taggatcaag gaattgtagg aagcttttca 480
 aaatctaaga ccccaaatac cagccaagag ccagccttgc aagcaggaca ttttaagagt 540
 agcagtccttg ggtctgctgt attaactctt ttctgcacag aaatgatagt atgacatcta 600
 agttattatt atcaaggac cgagaaatgc atgtttttta ggctagggaa g 651

<210> 134
 <211> 966
 <212> DNA
 <213> Homo sapiens

<400> 134
 atgaaccaga ctttgaatag cagtgggacc gtggagtcag ccctaaacta ttccagaggg 60
 agcacagtgc acacggccta cctgggtgtg agctccctgg ccatgttcac ctgcctgtgc 120
 gggatggcag gcaacagcat ggtgatctgg ctgctgggct ttcgaatgca caggaacccc 180
 ttctgcatct atatcctcaa cctggcgga gccgacctcc tcttcctctt cagcatggct 240
 tccacgctca gcctggaaac ccagcccctg gtcaatacca ctgacaaggc ccacgagctg 300
 atgaagagac tgatgtactt tgcctacaca gtgggcctga gcctgctgac ggccatcagc 360
 acccagcgct gtctctctgt cctcttcctt atctggttca agtgtcaccg gcccaggcac 420
 ctgtcagcct ggggtgtgtg cctgctgtgg aactctgtc tcctgatgaa cgggttgacc 480
 tcttccttct gcagcaagtt cttgaaattc aatgaagatc ggtgcttcag ggtggacatg 540
 gtccaggccg ccctcatcat gggggtctta accccagtga tgactctgtc cagcctgacc 600
 ctctttgtct ggggtcggag gagctcccag cagtggcggc ggagccac acggctgttc 660
 gtggtggtcc tggcctctgt cctggtgttc ctcatctgtt ccctgcctct gagcatctac 720
 tggtttgtgc tctactggtt gagcctgccg cccgagatgc aggtcctgtg cttcagcttg 780
 tcacgcctct cctcgtccgt aagcagcagc gccaaccccg tcacttactt cctggtgggc 840
 agccggagga gccacaggct gccaccagg tcctgggga ctgtgctcca acaggcgtt 900
 cgcgaggagc ccgagctgga aggtggggag acgcccaccg tgggcaccaa tgagatgggg 960
 gcttga 966

<210> 135
 <211> 198
 <212> PRT
 <213> Homo sapiens

<400> 135
 Lys Lys Gln Val Ser Leu Thr Glu Gln Glu Thr Ile Leu His Phe Phe
 1 5 10 15
 Lys Trp Gly Lys Thr Glu Gln Leu His Glu Lys Tyr Asn Ser Leu Tyr
 20 25 30
 Ile Lys Leu Ile Gly His Glu Leu Ala Leu Gln Val Glu His Asn Asn
 35 40 45
 Ser Arg Ser Lys Ser Arg Leu Pro Ser Lys Ser Cys Ser Ile Arg Arg
 50 55 60
 Phe Phe Ile Gln Asp Ala Lys Ile Ile Lys His Asn Asn Cys Ile Glu
 65 70 75 80
 Leu Asn Glu Asn Arg Gln Cys Phe Ile Ile Glu Lys Phe Ser Asp His

85

90

95

His Ala Lys Ile Phe Leu Ile Phe Asn Phe Leu Cys Arg Ile Ile Phe
 100 105 110

Met Ser Met Gly Tyr Phe Glu Tyr Arg Arg Ala Met Cys Asn Asn Tyr
 115 120 125

Ile Arg Val Asn Ile Val Ser Ile Thr Ser Ser Val Tyr His Leu Cys
 130 135 140

Tyr Lys Gln Ser Ser Tyr Ile Leu Leu Val Ile Leu Asn Cys Thr Thr
 145 150 155 160

Lys Leu Tyr Leu Gln Ser Pro Cys Cys Ala Ile Tyr Ile Leu Phe Ile
 165 170 175

Phe Phe Leu Thr Ile Phe Cys Thr His Pro Ser Ser Leu Tyr Ser Pro
 180 185 190

Ser Ala Gln Leu Asn Ser
 195

<210> 136

<211> 214

<212> PRT

<213> Homo sapiens

<400> 136

Arg Cys Ser Ile Val Ser Ser Val Ser Cys Pro Leu Leu Pro Pro Gly
 1 5 10 15

Val Asp Ser Cys Thr Val His Pro Thr Pro Ala Phe Pro Ser Phe Leu
 20 25 30

Ile Ser Pro Val Ile Phe Pro Val Ala Leu Leu Cys Trp Cys Pro Val
 35 40 45

Arg Ser Cys Gly His Lys Arg Leu His Gly Pro His Pro Gln Leu Gly
 50 55 60

Glu Ser Ser Pro Ser Trp Val Leu Trp Thr Val Lys Lys Asp Gly His
 65 70 75 80

Val Gly Ser Val Glu His Glu Val Val Gln Asp Leu Gly Gly His Arg
 85 90 95

Ser Cys Leu Pro Ala Ser Arg Ala Leu Pro Pro Phe Gly Ser Leu Leu
 100 105 110

His Leu Gly Lys Arg Phe Val Pro Thr Pro Arg Arg Val Asn Arg Ala
 115 120 125

Pro Trp Trp Ser Thr His Cys Pro Ser Glu Gly Pro Ser Ser Leu Met
 130 135 140

Ser Trp Cys Pro Gly Leu Pro Gly Arg Ile Leu Ala Ala Leu Pro Gly
 145 150 155 160

Pro Glu Met Asn His Trp Glu Glu Ile Gly Asn Glu His Thr Ala Ala
 165 170 175

Thr Leu His Pro Asn Pro Val Pro Tyr His Arg Arg Leu Leu Trp Gln
 180 185 190

Asp Asp Ser Ile Ser Val Cys Leu Arg Ser Leu Phe Leu Pro Arg Leu
 195 200 205

Leu Pro Pro Gly Arg His
 210

<210> 137
 <211> 141
 <212> PRT
 <213> Homo sapiens

<400> 137

Ile Ile Ser His Thr Ala Phe Phe Arg Phe Ser Leu Ser Ile Cys Phe
 1 5 10 15

Cys Asn Ser Tyr Trp Thr Phe Thr Ser Leu Ser His Cys Leu Leu Tyr
 20 25 30

Leu Leu Thr Phe Val Phe Ser Val Ser His Cys Cys Ile Val Ser Tyr
 35 40 45

Tyr Leu Ala Leu Pro Val Asn Ser Leu Ser Phe Phe Cys Asn Leu Phe
 50 55 60

Ile Ser Ser Leu Cys Leu Leu Phe Gln Leu Asn Leu Ile Ala Gln Ser
 65 70 75 80

Phe Ile Trp Ser Phe Lys Ile Cys Phe Cys Leu His Ser Tyr Phe Val
 85 90 95

Leu Phe Ser Leu Ser Leu Tyr Leu Phe Leu Met Leu Ser Ser Ala Tyr
 100 105 110

Tyr Phe Asp Ile Tyr Phe Leu Ala Ser Leu Arg Tyr Ser Ile Ile Ser
 115 120 125

Gly Pro Arg Ile Ile Lys Ser Pro Thr Thr Ser Val Asp
 130 135 140

<210> 138
 <211> 223
 <212> PRT
 <213> Homo sapiens

<400> 138

His Glu Trp Leu Thr Phe Phe Ile Glu Asp Glu Ile Leu Ser Trp Cys
 1 5 10 15

Ile Tyr Val Pro Cys Tyr Phe Pro Ala Asn His Phe Ser Asn Thr Ala
 20 25 30

Gln Leu Tyr Ser Asp Thr Val Asp Thr Val Phe Gln Ala Leu Tyr Phe
 35 40 45

Gln Phe Ile Cys Gly Ile Leu Asp Ser Phe Gly Ser Ser Thr Glu Val
 50 55 60

Thr Phe Ile Tyr Arg His Phe Arg Gly Ile His Thr Thr Ser Tyr Asn
 65 70 75 80

Cys Thr Ala Ile Ala Cys His Cys His Val Phe Ile Asn Phe Gln Phe
 85 90 95

00100US1.ST25.txt

Leu Glu Asp Phe Ser Ile Ile Ile Tyr Lys Leu Val Lys Phe Thr Val
 100 105 110
 Ile Cys Gln His Leu Glu Gln Glu Lys Met Ser Ala Lys Asp Gly Arg
 115 120 125
 Thr Leu Tyr Phe Ile Leu Ile Ala Gly Phe Leu Pro Asp Asp Asn Phe
 130 135 140
 Gln Lys Ile Asn Pro Asn Phe Asn Thr Ser Cys His His Phe Thr His
 145 150 155 160
 Ser Asn Ile Lys Ile Ser Asn Phe Thr Tyr Ile Ser Ser Glu Ser Thr
 165 170 175
 Asp Lys Leu Phe Tyr Ile Glu Gly Asn Ile Ser Trp Glu Val His Asn
 180 185 190
 Cys Thr Cys Arg Ile Ile His Arg Ser Phe Gln Val Leu Leu Leu Gln
 195 200 205
 Ile Gly Leu Lys Ser Ile Thr Val Gly Leu Ser Val Ala Gln Lys
 210 215 220
 <210> 139
 <211> 173
 <212> PRT
 <213> Homo sapiens
 <400> 139
 Asn Ile Ile Thr Phe Phe Tyr Glu Tyr Ser Trp Ser Phe Gln Asn Lys
 1 5 10 15
 Thr Ser Tyr Trp Phe Asn Lys Leu Trp Tyr Asn Gln Ile Met Lys Leu
 20 25 30
 Tyr Ala Phe Val Lys Val Thr Phe Gln Lys Asn Ile Leu His Arg Ile
 35 40 45
 Thr Asp Pro Ser Ala Leu Pro Thr Leu Trp Ala Leu Ser Leu Phe His
 50 55 60
 His His Tyr Leu His His Cys Leu Gln Val Phe Tyr Thr Ala Arg Val
 65 70 75 80
 Gly Leu Cys Leu Leu Asn Ser Gln Val Lys Arg Gly Arg Lys Leu Thr
 85 90 95
 Pro Ser Gly Gly Ser Leu Gly Met Ile His Gly Arg Trp Ser Ile Asn
 100 105 110
 Thr Ser Ala Leu Phe Pro Leu Glu Ile Leu Arg Asn Gly Phe Tyr Ile
 115 120 125
 Val Ser Gln Ser Phe Leu Lys Val Leu Asn Phe Asn His Pro Gln Gly
 130 135 140
 Val Val Gly Phe Ile Ile Val Tyr Ile Pro Leu Trp Leu Pro Phe Leu
 145 150 155 160
 Leu Val Ser Leu Leu His Ser Lys Leu Gly Phe Ile Ser
 165 170

<210> 140
 <211> 223
 <212> PRT
 <213> Homo sapiens

<400> 140

```

Val Phe Leu Ser Arg Lys Glu Glu Lys Gly Trp Val Val Thr Gly Gly
1           5           10           15
Gln Gln Cys Gln Asn Trp Gly Val Trp Thr Gly Ile Gln Glu Asn Glu
20           25           30
Gly Ala Gln Asp Glu Gln Lys Gly Gly Glu Ala Ile Phe Ile Lys His
35           40           45
Leu Leu Cys Ala Ser Gln Ala Arg Leu Gln Ile Ile Thr Leu Leu Lys
50           55           60
Ser Ser Gln Gln Pro Ser Asn Arg Tyr Leu Ser Leu Ile Pro Tyr Pro
65           70           75           80
Cys Ser Ala Ser Pro Pro Ile Thr Met Ala Glu Glu Phe Lys Pro Leu
85           90           95
Ser Lys Ala Ser Thr Val Ile Cys Pro Leu Asp Pro Ile Pro Ser Ile
100          105          110
Phe Leu Phe Ile Glu Thr Phe Ser Met Val Phe Lys His Thr Leu Leu
115          120          125
Ser Leu Leu Leu Asn Arg Gln Met Gln Leu Ile Lys Leu Phe Phe Ser
130          135          140
Leu Gly Tyr Cys Pro Ile Ser Leu Leu Pro Phe Met Ala Glu Leu Leu
145          150          155          160
Glu Arg Val Phe His Asn His Phe Ile Ser Thr Pro Leu Thr Asp Phe
165          170          175
Thr Gln Leu Glu Glu Glu Glu Gly Thr Leu Ile Pro Lys Cys Pro Ile
180          185          190
Lys Pro Asn Pro Leu Lys Val Leu Cys Cys His Asp Gly Cys Glu His
195          200          205
Gly Glu Lys Ile Leu Glu Asp Val Gly Asn His Asp Arg Glu Thr
210          215          220

```

<210> 141
 <211> 176
 <212> PRT
 <213> Homo sapiens

<400> 141

```

Ser Cys Glu Thr Ser Ile Leu Val Ser Trp Gly Gln Gly Asn Gln Gly
1           5           10           15
Pro Ser Met Leu Ile Leu Pro Cys Val Arg Leu Ile Leu Ser Ile Ser
20           25           30
Gly Gly Gln Val Ala Thr Trp Pro Pro Gly His Thr His Gln Glu Phe
35           40           45

```

00100US1.ST25.txt

Ile Leu Cys Asn Leu Glu Glu Gly Leu Arg Asn Ala Gly Gly Tyr Leu
 50 55 60
 Pro Gly Asp Ile Leu Tyr Pro Leu Ile Gly Asn Trp Gly Arg Ser Gln
 65 70 75 80
 Phe Gly His Thr Phe Pro Glu Leu Asn Phe Tyr Glu Gly Asp Leu Gly
 85 90 95
 Gly Arg Gly Ser Glu Ala Asn Ile Ala His Val Pro Gln Thr Leu Val
 100 105 110
 Cys Leu Thr Glu Ile Tyr Ile Phe Ser Asp Lys Phe Phe Lys Ser Leu
 115 120 125
 Leu Tyr Val Phe Arg Thr Ile Ser Gly Asp Phe Leu Lys Asn Asn Phe
 130 135 140
 Cys Leu Leu Tyr Leu Phe Ser Ala Val Thr Gly Pro Gln Ser Pro Tyr
 145 150 155 160
 Asn Val Asn Pro Glu Val Glu Leu Leu His Tyr Ser Phe Phe Phe Phe
 165 170 175

 <210> 142
 <211> 209
 <212> PRT
 <213> Homo sapiens

 <400> 142
 Ser Gln Lys Asn Thr Thr Pro Leu Leu Glu His Asn Val Ile His Phe
 1 5 10 15
 His Leu Leu Ala Ser Leu Ala Glu Phe Gln Lys Cys Asn His Tyr Glu
 20 25 30
 Ala Gly Thr Lys Asp Phe Pro Asn His Phe Val Ile Leu Ile Asn Ile
 35 40 45
 Ser Ser Ile Leu Leu Asp Pro Phe Thr His Phe Leu Tyr Cys Phe Pro
 50 55 60
 Phe Pro Glu Val Leu Asn Lys Ile Ser Leu Leu Phe Val Leu Glu Lys
 65 70 75 80
 Ser Ser Cys Leu Pro His Arg Met Val Val Gly Glu Thr Gln Trp Glu
 85 90 95
 Thr Ser Val Lys Gly Gln Lys Thr Leu Thr Phe Val Ile Val Ser Ser
 100 105 110
 Phe Phe Gln Asn Thr Ser Ile Ala Trp Leu Leu Tyr Thr Arg Leu Leu
 115 120 125
 Lys Ile Tyr Leu Cys Pro Thr Thr Leu Phe Val Val Asn Ile Phe Leu
 130 135 140
 Ile Leu Ile Gln Tyr Ile Ser Glu Ile Phe Asp Leu Gln Ser Asn Leu
 145 150 155 160
 Ser Ile Thr Met Ile Pro Tyr Leu Asn Thr Gly Met Val Lys Met Arg
 165 170 175
 Thr Asn Leu Pro Phe Leu Cys Ser Tyr Arg Gln Ala Ile Leu Ile Thr

180 185 190
 Asn Val Gln Ser Lys Pro Met His Glu Cys Arg Met Gln Leu Lys Ser
 195 200 205
 Arg
 <210> 143
 <211> 200
 <212> PRT
 <213> Homo sapiens
 <400> 143
 Ser Phe Pro Val Ser Glu Lys Ile Lys Pro Cys His Ser Lys His Val
 1 5 10 15
 Leu Pro Lys Phe Lys Lys His Val Asn Leu Leu Val Lys Leu Tyr Val
 20 25 30
 Leu Val Asp Phe Glu Ile Leu Cys Asn His Leu Lys Leu Ala Ser Gly
 35 40 45
 Pro Gln Leu Asp Gln Ile Pro Val Ser Leu Phe Leu Thr Ser Leu Cys
 50 55 60
 Trp Thr Thr Tyr Leu Gln Arg Gln Lys Lys Asp Lys Ser Asn Asn Pro
 65 70 75 80
 Thr Val Ile Leu His Lys Ser Met Thr Lys Leu Pro Leu Gln Lys Leu
 85 90 95
 Asn Ser Ser Ser Leu Asn Phe Leu Thr Ile Thr Trp Lys Ser Ala Thr
 100 105 110
 Met Val Asn Cys Gln Thr Cys Thr Ala Ser Gln Pro Thr Leu Tyr Thr
 115 120 125
 Asn Lys Gly Gly Leu Tyr Ser Asp His Tyr Trp Asn Lys Leu Ser Leu
 130 135 140
 Pro Asn Val Ser Ser His Pro Leu Asn Tyr Leu Leu Leu Leu Tyr Phe
 145 150 155 160
 Tyr Thr Ala Ile Lys Leu Lys Leu Leu Lys His Asn Phe Ala His Val
 165 170 175
 Gln Asn Phe Tyr Ser Val Pro Gln Gln Ser Leu Thr Asn Pro Gln Asn
 180 185 190
 Leu Pro Thr Asn Leu Phe Leu Thr
 195 200
 <210> 144
 <211> 170
 <212> PRT
 <213> Homo sapiens
 <400> 144
 Val Ile Pro Ser Ser Val Cys Pro Thr Val Gly Leu Pro Asp Thr Asp
 1 5 10 15
 Ser Thr Thr Leu Val Ile Cys Asp Phe Leu Phe Thr Gly His Glu Lys


```

20          25          30
Pro Phe Thr Asp Trp Leu Gln Cys Ala Ser Leu Pro Tyr Gln Leu Leu
  35          40          45
Phe His Thr Asn Ser His Leu Val Asn Trp Val Pro Cys Ser Ala Lys
  50          55          60
Met Cys Phe Ser Ala Gln Val Ile Leu Tyr Thr Pro Ile Leu Asn Leu
  65          70          75          80
Leu Cys Ala Ser Gln Ser Thr Ile Phe Gln Ser Gln Leu Lys Pro Phe
      85          90          95
Ile Ile Gln Tyr Gly Phe Ser Pro Gln Ser His Val Lys Val Ser Pro
      100          105          110
Cys Phe Phe Gln Thr Val Val Ala Leu Thr Gly Leu Leu Leu Gly Tyr
      115          120          125
Lys Leu Thr Leu Tyr Phe Ser Ile Phe Ser Leu Pro Trp Ser Lys Arg
      130          135          140
Lys Ile Arg Ser Met Asn Leu Arg Thr Tyr Lys Leu Leu Val Glu Gln
      145          150          155          160
Gly Leu Asp Ile Val Cys Ile Asp Ser Arg
      165          170

<210> 145
<211> 214
<212> PRT
<213> Homo sapiens

<400> 145
Met Gly Thr Ala Leu Phe Lys Val His Phe Pro Asp Ser Ala Val Leu
  1          5          10          15
Phe Ser Ser Ser Ile Pro Thr Asn Ser Gly Leu Gln Ala Phe Pro Leu
      20          25          30
Leu Ser His Ser Ile Leu Pro Glu Pro Ser Ile Lys Ala Pro Thr Ile
      35          40          45
Leu Pro Ser Gly Gly Ala Ile Phe Leu Ser Phe Pro Glu Arg Trp Asp
      50          55          60
Pro Leu His Phe Thr His Leu Ser Pro Arg Pro Ser Thr Cys Leu Ala
      65          70          75          80
Gln His Ser Asn Ile Asn Pro Val Glu Ile Asn Cys Gly Ile Ala Trp
      85          90          95
Phe Pro Trp Met Val Ile Gln Val Val His Cys Thr Thr Met Cys Asn
      100          105          110
Ile Pro Gly Lys Arg Gln Lys Phe Ile Asp Trp Leu Gly Val Leu Asn
      115          120          125
Ser Gln Gly Lys Leu Phe Asp His Cys Met Pro Ser Thr Trp Glu Asn
      130          135          140
His Ile Pro Gln Leu Leu Arg Pro Tyr Cys Met Val Thr Trp Gly Asn
      145          150          155          160

```

Ile His Thr Val Ser Pro Ala Leu Ser Ala His Lys Gly Asp Ile Val
 165 170 175
 Gln Arg Gly Asn Leu Ser Leu Pro Ser Thr Ser Leu Phe Leu Thr Pro
 180 185 190
 Lys Ser Leu Ser Leu Leu Thr Lys Asp Ile Ser Ala Ser Ala Ile Leu
 195 200 205
 Phe Ala Glu Trp Arg Ile
 210
 <210> 146
 <211> 200
 <212> PRT
 <213> Homo sapiens
 <400> 146
 Arg Ile Ser Gln Lys Cys Cys Val Leu Leu His Pro Leu Trp Gln Leu
 1 5 10 15
 Phe Val Tyr Leu Ser His Ala Gly Glu Val Asn Thr Asp Pro Leu Val
 20 25 30
 Lys Met Met Ser Asp Ile Phe Phe Ser Ala Ala Asn Leu Ser Ile Phe
 35 40 45
 Ser Phe Val Ile Met Gly Ile Leu Trp Lys Val Thr Trp Arg Leu Cys
 50 55 60
 Lys Ile Tyr Ser Ser Gln Phe Tyr Leu Pro Val Leu Ala Ser Ile Asp
 65 70 75 80
 Val Ser Cys Leu Ser Leu Leu Ala Gln Phe Ala Lys Cys His Tyr Leu
 85 90 95
 Pro Phe Ser Ser Met Arg Cys Met Tyr Val Tyr Met Tyr Ile Cys Ile
 100 105 110
 Asp Ile Ser Val Tyr Leu Glu Thr Tyr Ile Asp Glu Leu Ser Ile Thr
 115 120 125
 Met Ile Ile Tyr Phe Asp Val Gln Val Val Pro Asp Leu Thr Ser Asp
 130 135 140
 Ser Phe Leu Asn Leu Met Tyr Gln Asp Val His Lys His Val Phe Phe
 145 150 155 160
 Pro Cys Pro Asn His Pro Gly Val Gly His Leu Ser Lys Met Ser Cys
 165 170 175
 Phe Cys Leu Leu Arg Trp Arg Ser Gly Ile Gln Lys Ser Arg Ser Val
 180 185 190
 Cys Leu Val Cys Phe Ile Ala Ile
 195 200
 <210> 147
 <211> 191
 <212> PRT
 <213> Homo sapiens
 <400> 147

Tyr Leu Ile Leu Lys Tyr Ile Ile Met Lys Ser Ile Asn Val Ser Arg
 1 5 10 15
 Gln Arg Ser Tyr Ile Pro Lys Ile Gly Asn Asn Cys Val His Met Cys
 20 25 30
 Tyr His Thr Ile His Pro Ile Leu Leu Tyr Leu Asn Phe Pro Lys Gln
 35 40 45
 Pro Val Val Lys Gln Leu Val Met Arg Thr Asn Glu Lys Leu Pro Glu
 50 55 60
 Ile Ser Asp Ser Ser Cys Thr Tyr Phe Thr Pro Glu Val Trp Glu Phe
 65 70 75 80
 Thr Glu His Asn Val Arg Phe Phe Ser Ile Ser Tyr Pro Leu Pro Lys
 85 90 95
 Ile Val His Lys Ile Gln Asn Ile Ser Ser Leu Thr Phe Leu Glu Cys
 100 105 110
 Asn His Thr Leu Asp Asn Tyr Phe Arg Leu Leu Asn Gly Lys Arg Thr
 115 120 125
 Gly Arg Arg Val Lys Val Thr Cys Phe His Leu Ser Tyr Phe Arg Leu
 130 135 140
 Thr Ser Lys Ser Phe Phe Thr Leu Phe Leu Ile Leu His Arg Pro Phe
 145 150 155 160
 Leu Val Lys Ser Ala Asp Ser Lys Tyr Lys Ala Asn Ala Tyr Ser Tyr
 165 170 175
 val ile phe met phe phe lys asn asn met val leu thr ser ser
 180 185 190

 <210> 148
 <211> 193
 <212> PRT
 <213> Homo sapiens

 <400> 148
 Gly Leu Ser Glu Gly Glu Ala Ser Leu His Leu Asp Phe Phe Leu Lys
 1 5 10 15
 Ile Thr Thr Ile Met Asn Thr Ala Ala Thr Ser Leu Leu Cys Thr Arg
 20 25 30
 Gly Ile Ile Leu Gly Val Ser Val Tyr Ala Tyr Pro Glu Ile Ser Ser
 35 40 45
 Phe Leu Leu Arg Gly Glu Val Leu His Ile Asp Phe Ile Val Arg Asn
 50 55 60
 Gly Lys Ile Phe Asn Lys Cys Ile Arg Ala Thr Thr Phe Ser Ala Leu
 65 70 75 80
 Gln Pro Ala Ser Pro Pro Ser Arg Gln Asp Ile Met Asn Pro Leu Phe
 85 90 95
 Gly Lys Ala Ala Glu Lys His Val Leu Gln Thr Tyr Tyr His Leu Val
 100 105 110

Asn Asn Ser Gln Trp Thr Asp Gln Asn Ser Arg Arg Phe Pro Leu Ser
 115 120 125

Leu His Cys Thr Asp Ala Ala Thr His Ala His Ile Pro Leu Asn Leu
 130 135 140

Pro Val Thr Thr Ala Gln Arg Gln Leu Ser Ser Trp Ala Gln Asn His
 145 150 155 160

Trp Gly Thr Phe Trp Gln Leu Ala Asn His Cys Ala Gln Arg Gln Ser
 165 170 175

Gln Phe Thr Leu Pro Gln Arg Gly Thr Glu Tyr Thr Ala His Pro His
 180 185 190

Leu

<210> 149

<211> 195

<212> PRT

<213> Homo sapiens

<400> 149

Ile Leu Asp Ser Phe Arg Asp Phe Leu Glu Gln Gly Gln Glu Ser Phe
 1 5 10 15

Leu Asp Lys Val Arg Ser Asp Leu Ser Gln Gly Arg Ser Ile Phe Ser
 20 25 30

Tyr Thr Arg Arg Asn Phe His His Lys Gln Cys Pro Lys Asp Ala Cys
 35 40 45

Tyr His Phe Tyr Ser Met Leu Phe Ser Val Phe Trp Pro Ile Leu Leu
 50 55 60

Glu Ile Gln Val Arg Lys Met Thr Lys Gly Ile His Glu Thr Arg Ser
 65 70 75 80

Leu Phe Arg Arg Trp Tyr Asp Cys Leu Ser Arg Lys Lys Glu Met Thr
 85 90 95

Pro Ser Phe Trp Glu Phe Thr Asn Ser Gly Trp Val Leu Asp Lys His
 100 105 110

Leu Lys Asn Gln Ser Phe Pro Cys Val Ala Ala Ile Thr Ile Lys Met
 115 120 125

Glu Met Arg Ser Gly Ala Val Asn Ile Gln Gln Glu Leu Leu Ile Cys
 130 135 140

Arg Pro Asp Lys Ser Pro Pro Glu Trp Thr Pro Ala Arg Glu Gly Arg
 145 150 155 160

Ser Leu Glu Gly Arg Arg Glu Asp Thr Glu Asp Leu Pro Leu Pro Gln
 165 170 175

Glu Ala Pro Arg Glu Arg Ala Thr Thr Val Tyr Ser Ser Arg Leu Trp
 180 185 190

Gly Asp Ser
 195

<210> 150

<211> 168
 <212> PRT
 <213> Homo sapiens

<400> 150

Leu Lys Ser Ser Gln Gln Pro Ser Asn Arg Tyr Leu Ser Leu Ile Pro
 1 5 10 15
 Tyr Pro Cys Ser Ala Ser Pro Pro Ile Thr Met Ala Glu Glu Phe Lys
 20 25 30
 Pro Leu Ser Lys Ala Ser Thr Val Ile Cys Pro Leu Asp Pro Ile Pro
 35 40 45
 Ser Ile Phe Leu Phe Ile Glu Thr Phe Ser Met Val Phe Lys His Thr
 50 55 60
 Leu Leu Ser Leu Leu Leu Asn Arg Gln Met Gln Leu Ile Lys Leu Phe
 65 70 75 80
 Phe Ser Leu Gly Tyr Cys Pro Ile Ser Leu Leu Pro Phe Met Ala Glu
 85 90 95
 Leu Leu Glu Arg Val Phe His Asn His Phe Ile Ser Thr Pro Leu Thr
 100 105 110
 Asp Phe Thr Gln Leu Glu Glu Glu Gly Thr Leu Ile Pro Lys Cys
 115 120 125
 Pro Ile Lys Pro Asn Pro Leu Lys Val Leu Cys Cys His Asp Gly Cys
 130 135 140
 Glu His Gly Glu Lys Ile Leu Glu Asp Val Gly Asn His Asp Arg Glu
 145 150 155 160
 Thr Glu Lys Val Val Lys Gly Phe
 165

<210> 151
 <211> 121
 <212> PRT
 <213> Homo sapiens

<400> 151

Thr Gly His Pro Arg Leu Pro Pro Thr Leu Lys Gln Pro Ala Arg Gln
 1 5 10 15
 Cys Val Thr Tyr Gly Phe Asn Ser Asp Glu Glu Asp Ser Ser Trp His
 20 25 30
 Gly Leu Leu Arg Thr Leu Asn His Lys Val Ser Arg Asp Arg Arg Thr
 35 40 45
 Val Pro Thr Ala Ala Thr Pro Arg Trp Val Cys Ser Pro Val Ala Thr
 50 55 60
 Leu Lys Phe Leu Lys Thr Phe Tyr Gly Val Leu Leu Cys His Leu Gly
 65 70 75 80
 Trp Ser Ala Val Thr Cys Leu Ile Pro His Leu Ala Glu Thr His Arg
 85 90 95
 Arg Ser Leu Val Arg Thr Arg Glu Gly Ala Gly His Ser Gly Ser Cys

100 105 110
 Gln His Phe Gly Arg Leu Arg Gln Glu
 115 120
 <210> 152
 <211> 211
 <212> PRT
 <213> Homo sapiens
 <400> 152
 Leu Val Ala Ile Ser Leu Lys Phe Phe Phe Cys Arg Lys Ile Ser His
 1 5 10 15
 Arg Trp Leu Ile Ile Cys His Ile Lys Pro Leu Arg Lys Lys Gly Trp
 20 25 30
 Gln Met Leu Leu Leu Val Arg Leu Leu Cys Tyr Glu Ile Trp Val Lys
 35 40 45
 Cys Ala Gly Val Thr Glu Glu Gly Glu Phe Leu Ser Pro Ser Arg Ile
 50 55 60
 Glu Glu Asn Gly Val Arg Asp Arg Glu Gln Leu Ala Arg Lys Ala Gln
 65 70 75 80
 Gly Val Asn Leu Thr Arg Lys Phe Lys Gln Trp Leu Leu Leu Tyr Ser
 85 90 95
 Leu Phe Val Gln Ile Leu Lys Met Lys Leu Phe Ile Lys Phe Ile Val
 100 105 110
 Val Phe Leu Asn Ser Met Arg Asn Gly Arg Asn Leu Arg Tyr Cys Ser
 115 120 125
 Lys Gly Ser Ser Ala Pro Asn Leu Phe Leu Thr Lys Phe Ile Leu Leu
 130 135 140
 Pro Lys Val Ser Pro Asn Val Thr Pro Thr Ser Ile Arg Gln Glu Tyr
 145 150 155 160
 Cys Asn Glu Ala Met Thr Ile His Asn Leu Leu Ser Ile Lys Gln Val
 165 170 175
 His Glu Arg Phe Cys Asn Asn Thr Leu Cys Lys Ser Leu Trp Asn Asn
 180 185 190
 Asn Lys Ile Asp Val His Phe Met Tyr Tyr Cys Ile Leu His Ile Leu
 195 200 205
 Arg His Glu
 210
 <210> 153
 <211> 173
 <212> PRT
 <213> Homo sapiens
 <400> 153
 Val Asp His Trp Ile His Leu Asp Met Phe Lys Met Phe Thr Tyr Gly
 1 5 10 15
 Val Leu Ile Leu Leu Gly Pro Glu Asn Ala Tyr Ser Gly Ile Leu Leu

```

20          25          30
Ser Ser Gly Lys Arg Ala Pro Phe Ser Pro Asn Leu Lys Asp His Glu
 35          40          45
Asn His Leu Lys Cys Leu Leu Glu Val Arg Ile Pro Gln Pro Val Trp
 50          55          60
Gly Pro Ala Ile Cys Ile Phe Lys Glu Thr Trp Thr Val Thr Cys Glu
 65          70          75          80
Lys Pro Tyr Ala Gln Tyr Val Leu Ala Ile Arg Ile Thr Met Val Asn
      85          90          95
Ile Asn Tyr Leu Phe Arg Glu His Lys Phe Leu Leu Thr Gln Leu Asn
      100          105          110
Ala Lys Cys Phe Lys Ser Lys Thr Pro Cys Leu Lys Asn Ile Gly Phe
      115          120          125
Phe Phe Lys Gln Tyr Lys Thr Gly Tyr Leu Ser His Glu Phe Gly Ala
      130          135          140
Pro Asn Ser His Cys Phe Gln Thr Ile Ser Gln Glu Arg Ser Leu Gln
      145          150          155          160
Ser Pro Pro Val Ala Ser Ile Ala Leu Cys Val Leu Lys
      165          170

<210> 154
<211> 172
<212> PRT
<213> Homo sapiens

<400> 154
Gln Ile Leu Gly Ser Lys Arg Arg Lys Met Ser Arg Met Lys Arg Tyr
 1          5          10          15
Leu Ile Ile Ser Ser Ala Asp Phe Leu Gly Asn Val Phe Ile Pro Ile
      20          25          30
Phe Ile Thr Tyr Val Val Lys Asp Ser Phe Ser Gly Leu Tyr Ile Gln
      35          40          45
Leu Phe Glu Tyr Ile Tyr Asn Asn Ile Tyr Ser Cys Leu Ile Gly Asn
      50          55          60
Phe Asn Asn Tyr Gln Asn His Lys Glu Ile Phe Phe Ala Cys Phe His
      65          70          75          80
Tyr Phe His His Phe Gly Ile Cys Tyr Val Val Lys Lys Tyr Ser Glu
      85          90          95
Lys Thr Ile Ile Leu Lys Ser Cys Cys Ile Asn Arg Ile Trp Gly Lys
      100          105          110
Glu Gln Thr Thr Lys Arg Gly Arg Leu Met Ser Leu Val Gly Thr Trp
      115          120          125
Glu Val Thr Leu Ile Ser His Phe Leu Asn Leu Lys Glu Glu Lys Val
      130          135          140
Lys Leu Ile Asn His Ser Thr Gln Lys Asn Thr Phe Trp Thr Ile Lys
      145          150          155          160

```

Asp Ser Ala Ile Tyr Met Asp Tyr Ile Phe Ile Ser
 165 170

<210> 155
 <211> 231
 <212> PRT
 <213> Homo sapiens

<400> 155

Arg Cys Glu Pro Leu Pro Gly Leu Glu Leu Leu Leu Asp Cys Ile Pro
 1 5 10 15
 Arg Gly Asn Phe Met Thr Glu Phe Arg Ser Ala His Ile Leu Ala Ala
 20 25 30
 Ser Lys Arg Glu Arg Glu Ser Pro Ala Leu Ile Ser Val Ile Phe Leu
 35 40 45
 Phe Asp Leu Ile Tyr Ser Ile Asn Thr Pro Gln Glu Gly Thr Phe Pro
 50 55 60
 Ser Pro Ala Pro Lys Gln Asn Arg Ser Ile Leu Asp Gly Leu Pro Asn
 65 70 75 80
 Trp Cys Leu Gln Thr Ser Ser Leu Ser Pro Ser Pro Thr Leu Lys Ser
 85 90 95
 Arg Ser Leu Ile Cys Met Gly Cys Ile Ser Thr Leu Met Leu Pro Gly
 100 105 110
 Phe Trp Leu Gly Leu Pro Asn Gly Arg His His Trp Arg Arg Met Glu
 115 120 125
 Val Gly Gly Gly Arg Trp Glu Gly Arg Gly Trp Gly Ile Val Pro Leu
 130 135 140
 Ala Pro Phe Leu Cys Ser Phe Gly Ser Leu Gln His Pro Val Thr Leu
 145 150 155 160
 Ser Leu Ser His Gln Val Phe Ile Phe Cys Trp Phe Pro Phe Val Leu
 165 170 175
 Pro Thr Phe Thr Thr Cys Pro Phe Leu Lys Asp Pro Ser Ile Ala Leu
 180 185 190
 Phe Gly Asn Ile Leu Phe Ser Ala Gly Thr Pro Glu Leu Tyr Arg Arg
 195 200 205
 Val Gln Glu Ala Thr Lys Leu Gln Met Pro Thr Thr Trp Trp Asn Arg
 210 215 220
 Cys Pro Leu Glu Ala Ala Ala
 225 230

<210> 156
 <211> 160
 <212> PRT
 <213> Homo sapiens

<400> 156

Pro Ile Cys Leu Asn Ala Ser Cys Ser Gly Gly Leu Thr Pro Ile Asn
 1 5 10 15

Pro Ser Cys Leu Trp Lys Gly Leu Pro Thr Glu Leu Asp Ser Asn Ile
 20 25 30
 Gln Ser Ser Ser Thr His Pro Phe Ser Trp Thr Leu Trp Gly Pro Arg
 35 40 45
 Gln Gln Thr Ser Cys Leu Phe Tyr Arg Ala Ala Leu Gln Met Ala Gly
 50 55 60
 Ala Thr Val Phe Ser Ala Leu Glu Asp Leu Ser Met Val Val Ser Phe
 65 70 75 80
 His Ile Ser Tyr Asp Phe Tyr Ser Gln Glu Ser Leu Ile Cys Leu Leu
 85 90 95
 Met His Phe His Leu Ser Val Thr Leu Leu Gln Asn Gln Arg Glu Ile
 100 105 110
 Thr Leu Ile Phe Leu Arg Ala Ser Lys Leu Pro Gly Leu Gln Arg Pro
 115 120 125
 Cys Arg Ala His Arg Gln Arg Met Thr Arg Gly His Met Pro Cys Met
 130 135 140
 His Phe His Leu Ser Val Thr Leu Leu Gln Ala Asn Leu Lys Gly Met
 145 150 155 160

 <210> 157
 <211> 225
 <212> PRT
 <213> Homo sapiens

 <400> 157
 Val Pro Leu Val Asn Pro Glu Tyr Asn Ile Phe Tyr Lys Thr Cys Phe
 1 5 10 15
 Ile Leu Ser Gly Met Arg Cys Ile Phe Glu Gly Leu Leu Lys Leu Ala
 20 25 30
 Ile Thr Ile Arg Leu Leu Leu Asn Leu Gly Ile Ser Leu Pro Ser Cys
 35 40 45
 Gln Gly Leu Tyr Leu Met Phe Val Ser Leu Lys Lys Lys Arg Asn Gln
 50 55 60
 Thr Asp Tyr Thr Leu Leu Lys Thr Glu Asp Met Tyr Phe Asn Met Ser
 65 70 75 80
 Leu Leu Pro Val Ile Gln Ser Leu Lys Phe Gln Asn Pro Ser Gly Thr
 85 90 95
 Leu Cys Gly Pro Trp Ile Lys His Thr Trp Ala Tyr Glu Cys Val Asp
 100 105 110
 His Trp His Met Arg Gly Asn Cys Leu Leu Gly Tyr Val Ala Leu Pro
 115 120 125
 Leu Ser Ile Tyr Asn Ser Asn Val Ser Glu Arg Ser Ser Ser Leu Lys
 130 135 140
 Leu Phe Ser Arg Ile Arg Gln Thr Val Pro Ala Asn Gln Gly Asp Glu
 145 150 155 160

Phe Trp Pro Met Phe Gly Arg Ser Leu Leu Gln Trp Gly Val Thr Ser
 165 170 175
 His Glu Arg Ile Ile Arg Asn Leu Ser Thr Thr Leu Gly Asn Leu Ala
 180 185 190
 Asn Glu Leu Ala Glu Ala Ile Ala Thr Lys Arg Ser Ser Asp Ser Leu
 195 200 205
 Asp Arg Ile Val Met Asp Asp Gly Ile Thr Leu Gly Tyr Ile Val Val
 210 215 220
 Lys
 225
 <210> 158
 <211> 215
 <212> PRT
 <213> Homo sapiens
 <400> 158
 Leu Pro His Leu Cys Cys Ser Leu Leu Thr Ile Lys Pro Asp Met Cys
 1 5 10 15
 Leu Ser Pro Cys Leu Pro Thr His Pro Leu Ile Thr Ser Val Pro Cys
 20 25 30
 Ser Gln Val Ala Ser Arg Glu Asp Cys Gly Leu Met Ser Ser Phe Met
 35 40 45
 Pro Trp Leu Leu Leu Ile Arg Ala Leu Tyr Thr Phe Ser Lys Ala Leu
 50 55 60
 Glu Ser Lys Val Leu Leu Gly Ser Ser Pro Gln Met Gln Phe Met
 65 70 75 80
 Lys Ser Val Ser Phe Ser Phe Pro Ser Glu Phe Leu Ser Val Ser Ile
 85 90 95
 Lys Ala Leu Asp Thr Pro Trp Phe Thr Arg Gln Lys Leu Ile His Pro
 100 105 110
 Thr Gln Pro His Gly Tyr Ser Phe Val Leu Leu Asp Asn Asn His Leu
 115 120 125
 Arg Lys Pro Asp Leu Phe Pro His Ser Ser Phe Ser Phe Cys Pro Ala
 130 135 140
 Glu Asn Lys Arg Thr Ser Cys His Ile Val Ile Cys Ser Ala Leu Leu
 145 150 155 160
 Leu Arg Ser Leu Val Gly Lys Thr Gly Pro Ile Lys Arg Asp Thr Ala
 165 170 175
 Met Pro Trp Gly Glu Asp Asn Lys Ser Asp Gly Ser Arg Ala Leu Glu
 180 185 190
 Ser Arg Gly Gly Val Thr Asn Cys Pro Asn Gly Thr Val Pro Ser Glu
 195 200 205
 Leu Leu His Leu Leu Leu Thr
 210 215
 <210> 159

<211> 202
 <212> PRT
 <213> Homo sapiens

<400> 159

```

Leu Lys Val Lys Lys Glu Tyr Pro Phe Ile Leu Asp Asn Cys Cys Gln
1          5          10          15
Arg His Tyr Asn Ile Ser Val Val Ile Pro Tyr Phe Ser Lys Ala Lys
20        25        30
Ile Glu Ile Trp Pro Leu Leu Leu Cys Asn Phe Leu Lys Phe Lys Val
35        40        45
Ser Val Phe Ser Ile Ile Lys Tyr Ser Ser Leu Lys Leu Met Ala Ile
50        55        60
Arg Tyr Ser Ile Val Trp Ile Ile Tyr Leu Arg Phe Cys Gly Leu Phe
65        70        75        80
Cys Phe Gln Asn Asn Thr Lys Ile Asn Ile Phe Val Cys Lys Tyr Phe
85        90        95
Thr Lys Ile Tyr Ser Glu Lys Phe Leu Lys Val Glu Phe Leu Gly Glu
100       105       110
Val Thr Phe Lys Cys Leu Ile His Leu Leu Ser Gly Lys Thr Val Arg
115       120       125
Phe Leu His Ser His His Ser Val Tyr Gly His Gln Leu Thr Val Phe
130       135       140
Phe Pro Thr Leu Leu Ile Phe Ser Leu Ser Met Trp Ile Lys Phe Gly
145       150       155       160
Phe Tyr Tyr Phe Asn Leu Tyr Ser Ile Thr Leu Leu Ala Ile Ser Leu
165       170       175
Gly Val Val Asn Ile Cys Pro Cys Pro Phe Leu Phe Gly Met Leu Ser
180       185       190
Leu Met Thr Asn Cys His Asn Val Ile Asn
195       200

```

<210> 160
 <211> 215
 <212> PRT
 <213> Homo sapiens

<400> 160

```

Asn Ile Ser Phe Leu Ser Leu Lys Met Ala Val Ser Cys Val Leu Ile
1          5          10          15
Asn Leu Lys Ile Asn Leu Ser Ile Gly Glu Ala Gly Lys Leu Ala Trp
20        25        30
Lys Val Asn Leu Leu Ser Arg Gly Lys Ile Ser Trp Ala Leu Ile Lys
35        40        45
Val Asp Ile Phe Arg Gly Gly Lys Ser Lys Phe Tyr His Thr Leu Ala
50        55        60
Phe Val Gln Phe Ser Pro Leu Phe Ser Leu Tyr Tyr Leu Phe Phe Cys

```


Arg Thr Tyr Leu Gln Val Leu Ser Leu Leu Leu Trp Arg Glu Pro Phe
 165 170 175
 Ser His Met Asn Cys Asp Phe Val Tyr Leu Ala Pro Thr Met Val Leu
 180 185 190
 Asn Ser Trp Val Leu Gly Lys
 195
 <210> 162
 <211> 213
 <212> PRT
 <213> Homo sapiens
 <400> 162
 Tyr Trp Phe Asn Lys Leu Trp Tyr Asn Gln Ile Met Lys Leu Tyr Ala
 1 5 10 15
 Phe Val Lys Val Thr Phe Gln Lys Asn Ile Leu His Arg Ile Thr Asp
 20 25 30
 Pro Ser Ala Leu Pro Thr Leu Trp Ala Leu Ser Leu Phe His His His
 35 40 45
 Tyr Leu His His Cys Leu Gln Val Phe Tyr Thr Ala Arg Val Gly Leu
 50 55 60
 Cys Leu Leu Asn Ser Gln Val Lys Arg Gly Arg Lys Leu Thr Pro Ser
 65 70 75 80
 Gly Gly Ser Leu Gly Met Ile His Gly Arg Trp Ser Ile Asn Thr Ser
 85 90 95
 Ala Leu Phe Pro Leu Glu Ile Leu Arg Asn Gly Phe Tyr Ile Val Ser
 100 105 110
 Gln Ser Phe Leu Lys Val Leu Asn Phe Asn His Pro Gln Gly Trp Ala
 115 120 125
 Leu Ser Tyr Thr Ser Phe Val Ala Ser Leu Pro Ser Cys Leu Thr Ser
 130 135 140
 Pro Phe Gln Thr Arg Ile Tyr Phe Phe Ser Leu Lys Gln Asn Lys Met
 145 150 155 160
 Phe Asn Leu Lys Pro Leu Gln Asn Thr Asn Leu Tyr Leu Lys Asn Leu
 165 170 175
 Asn Ile Gly Glu Asn Glu Thr Val Tyr Ala Gln Val His Asp Trp Trp
 180 185 190
 Arg Leu Lys Ser Ser Lys Ile Phe Leu Lys Gly Tyr Pro Ser Arg Arg
 195 200 205
 Leu Asn Cys Leu Ile
 210
 <210> 163
 <211> 236
 <212> PRT
 <213> Homo sapiens
 <400> 163

Leu Ala Ser Glu Ser Leu Leu Val Arg Lys Glu Val Val Leu Phe Pro
 1 5 10 15
 Leu Gln Ala Lys Ala Phe Gln Val Leu Ser Phe Cys Ser Ile Lys Arg
 20 25 30
 Gln Leu Arg Gly Arg Tyr Pro Gln Glu Phe Pro Asp Ser Cys Thr Asp
 35 40 45
 Leu Ser Ala Glu Ile Ala Glu Val Ser Trp His Leu His Glu His Leu
 50 55 60
 Ser Val Ala Gly Arg Ile Asn Gly Lys Arg Ala Thr Glu Ile Pro Gly
 65 70 75 80
 Ala Lys Ser Ser Ser Glu Ser Pro Ile Phe Asp Gln Glu Leu Val Gly
 85 90 95
 Ser Leu Arg Ile Cys Ile Ser Ser Asp Ser Arg Leu Ser Gly Leu Ser
 100 105 110
 Asn Trp Asp Gln Ser Asn Ser Tyr His Ala Tyr Leu Val Pro Gly Ser
 115 120 125
 Leu Leu Arg Ala Ser Trp Thr Pro Ala Arg Val Ser Pro His Ser Asn
 130 135 140
 His Met Arg Tyr Val Leu Leu Ser Pro Cys Ala Asp Glu Asp Thr
 145 150 155 160
 Arg His Arg Glu Asn Trp Pro Gln Val Tyr Ser Trp Gly Gly Gln Ser
 165 170 175
 Gln Asn Ser Asp Leu Gly Cys Leu Gly Cys Glu Leu Val Trp Ala Ser
 180 185 190
 Met Gly His Arg Gly Arg Ile Ser Trp Arg Ser Arg Thr Glu Gly Lys
 195 200 205
 Arg Asp Glu Ile Ser Asp Ser Ala Gly Ser Glu Thr Leu Ser Ala Met
 210 215 220
 Ile Lys Pro Asp Tyr Gly Thr Cys Phe Ser Leu Ser
 225 230 235
 <210> 164
 <211> 193
 <212> PRT
 <213> Homo sapiens
 <400> 164
 Phe Gln Asp Ile His His Arg Cys Gly Arg Gly Lys Lys Thr Met Gly
 1 5 10 15
 Met Gly Ile Leu Pro Phe Ile Asn Thr Gly His Phe Asn Leu Leu Asn
 20 25 30
 Leu Ser Thr Phe Cys Asn Leu Arg Ile Phe Ile Leu Asp Ser Trp Thr
 35 40 45
 Lys Ala Leu Glu Met Ala Ser Phe Ala Arg Phe Leu Cys Ala Leu Glu
 50 55 60

Lys Ile Pro Gly Phe Asn Ala Lys Asn Arg Gln Gln Arg Ala Gln Glu
 65 70 75 80
 Met Glu Leu Ser Gly Val Leu Leu Gln Leu Arg Thr Val Cys Tyr Ser
 85 90 95
 Pro Phe Lys Ile Ser Pro Asn Leu Tyr Leu Met Val Lys Asp Val Phe
 100 105 110
 Phe Phe Leu Leu Glu Glu Lys Val Thr Arg Ile His Gly Ser Gly Leu
 115 120 125
 Ile Val Leu Leu Leu Met Glu Ile His Lys Gln Phe Leu Lys Tyr Ser
 130 135 140
 Leu Ala Ser Glu Leu Val Trp Asn Leu Ala Val Tyr Leu Leu Asp Trp
 145 150 155 160
 Val Thr Thr Ala Val Ala Gly Ser Ile His Tyr Thr Arg Leu Cys Ile
 165 170 175
 Ser Met Met Ile Val Lys Phe Cys Glu Lys Val Leu His Leu Cys Ser
 180 185 190

Leu

<210> 165
 <211> 199
 <212> PRT
 <213> Homo sapiens

<400> 165

Leu Phe Ser Ala Phe Ser Leu Ile Leu His Leu Thr Gly Leu Val Val
 1 5 10 15
 Asn Ile Leu Lys Val Tyr Val Leu Ile Lys Thr Ser Ser Phe Pro Lys
 20 25 30
 Glu Lys Lys Ser Gln Phe Gly Leu Val Ser Leu Ser Cys Phe Leu His
 35 40 45
 Leu Thr Asn Val Ser Phe Ile Tyr Ser Phe Cys Ser Val Thr Phe Arg
 50 55 60
 Met Ile Leu Met Gly Lys Asn His Gly Ser Tyr Lys Gln Pro Phe Lys
 65 70 75 80
 Thr Ile Val Ile Leu Cys Ser Val Asp Ser Gly Arg Gly Phe Lys Val
 85 90 95
 Ile Ile Ser Leu Lys His Cys Val Asn Ile Pro Pro Thr Val Val Pro
 100 105 110
 Leu Gly Thr Gly Lys Ile Gln Asn Trp Pro Ala Ser Ser Leu Thr Arg
 115 120 125
 Val Ile Lys Val Arg Leu Leu Tyr Ile Lys Gln His Leu Asn Ala Trp
 130 135 140
 Cys Val Ala Ala Gly Lys Gln Pro Arg Ser Pro Ser Cys Ile Arg Gly
 145 150 155 160
 Leu Met Asn Val Ser Ile Ala Val Phe Ala Val Thr Arg Ser Gly Arg

```

165                               170                               175
Val Phe Pro Ser Ser Leu Asp Cys Leu Pro Met His Thr Gly Val Cys
180                               185                               190

Ile Gly Lys Gln Ser Arg Leu
195

<210> 166
<211> 150
<212> PRT
<213> Homo sapiens

<400> 166

Ile Trp Cys Phe His Arg Leu Lys Gly Leu Arg Cys Pro Pro Val Ala
1      5      10
Val Ala Cys Gly Ser Leu Cys Ser Cys Leu Pro Ser Trp Ala Gln Tyr
20     25     30
Leu Val Leu Cys Leu Gly Phe Thr Asn Ala Thr Asn Thr Tyr Ala Pro
35     40     45
Thr Leu Cys Gln Val Leu Cys Tyr Met Leu Arg Lys Gln Cys Thr Arg
50     55     60
Trp Ile Arg Phe Ser Ser Leu Trp Cys Pro Ser Ser Gly Lys Asp Arg
65     70     75     80
Leu Ser Val Phe Tyr Gly Gln Ala Tyr Arg Ala Lys Lys Thr Cys Val
85     90     95
Gly Met Gly Gln Gly Arg Tyr Pro Trp Ser Ser Pro Val Thr Gly Ile
100    105    110
Arg Leu Arg Val Ile Val Gly Arg Ala Leu Gln Ala Gly Gly Ser Ala
115    120    125
Cys Ala Arg Val Leu Arg Lys Glu Gly Glu Gln Cys Val Arg Asn Ile
130    135    140

Thr Val Val Ala Thr Gln
145    150

<210> 167
<211> 218
<212> PRT
<213> Homo sapiens

<400> 167

Ile Ile Ile Arg Ile Ile Arg Ile Leu Lys Tyr Pro Asn Asn Gln Val
1      5      10      15
Asn Lys Ala Thr Phe Tyr Gly Ile Ile His Phe Cys Phe Glu Lys Tyr
20     25     30
Thr Leu Phe Lys Tyr Tyr Cys Leu Phe Thr Gln Leu Leu Glu His Ser
35     40     45
Ser Ala Lys Ala Phe Met Ile Phe Thr Asn Leu Ala Phe Ile Phe Ala
50     55     60
Leu Leu Ser Thr Ile Thr Lys Val Ile Thr Thr Cys Ser Pro Thr Asn

```



```

65              70              75              80
Tyr Ser Asp Gly Ala Leu Arg Ile Asp Leu Tyr Leu Asn Ile Leu Trp
      85              90              95
Tyr Gln Val Phe Leu His Ser Ser Arg Ile Phe His Phe Ala Tyr Ile
      100              105              110
Leu Met Met Ser Ser Arg Ile Ser Ser Leu Thr Tyr Leu Ala Asn Tyr
      115              120              125
Lys Tyr Val Ile Phe Val Lys Tyr Leu Arg Val Cys Ser Ala Ile Tyr
      130              135              140
Leu Val Ile Leu Asn Gln Ile Leu Asn Val Tyr Thr Phe Leu Met Tyr
      145              150              155              160
Asn Phe Gln Phe Phe Arg Met Arg Leu Asn Asn Cys Pro Tyr Tyr Ser
      165              170              175
Phe Ile Thr Thr Leu Ile Tyr Leu Leu Tyr Leu Gln Met Ile Tyr Lys
      180              185              190
Asn Ala Phe Leu Tyr Leu Ser Leu Ser Gln Val Leu His Ser Glu Leu
      195              200              205
Phe Phe Leu Phe Val Phe Leu Arg Tyr Ile
      210              215

<210> 168
<211> 204
<212> PRT
<213> Homo sapiens

<400> 168
Tyr Cys Glu Leu Arg Cys Tyr Ile Ser Glu Cys Asn Glu Trp Asp Ile
1              5              10              15
Ala His Trp Leu Glu Lys Pro Pro Lys Gln Ala Ala Ser Ala Ile Glu
      20              25              30
Leu Leu Ala Trp Ser Arg His Ser Ala Ser Gly His Gly Asp Asn Ser
      35              40              45
Ser Glu Ile Asn Ser Ser Thr Lys Val Ser Asn Asp Val Ile Ser Ser
      50              55              60
Gln Arg Gln Gly Cys Pro Val Lys Gln Thr Asp Gly Gln Ser Pro Pro
      65              70              75              80
Arg Leu Lys Gly Gly Gly Glu Thr Gly Arg Lys Arg Met Arg Trp Val
      85              90              95
Arg Lys Arg Tyr Asn Leu Arg Val Thr Met Ser Ser Cys Ser Pro Arg
      100              105              110
Trp Gln Trp Val Gly Gly Pro Gly Lys Asp Cys Phe Arg Gln Met Glu
      115              120              125
Gln Cys Met Arg Arg Ser Arg Glu Lys Ser Gln Ile Val Cys Ile His
      130              135              140
Val Leu Gln Asn Arg Glu Ser Asn Arg Tyr Leu Gly Lys Lys Lys Glu
      145              150              155              160

```

Val Ser Leu Phe Leu Ser Leu Lys Val Gln Lys Trp Ala Phe Pro Gln
 165 170 175

Phe Ile Cys Gln Pro His Glu Val Phe Thr Asp Leu Asp Leu Leu Ile
 180 185 190

Ser Cys Tyr Phe Ile Thr Leu Leu Glu Leu Leu Pro
 195 200

<210> 169
 <211> 158
 <212> PRT
 <213> Homo sapiens

<400> 169

Lys Val Leu Ile Phe Val Leu Arg Pro Ile Tyr Thr Tyr Lys Cys His
 1 5 10 15

Pro Ser Ile Phe Leu Cys Asn Phe Leu Ser Ala Gly Leu Pro Ser Leu
 20 25 30

Met Cys Val Leu Tyr Phe Pro Tyr Ile Cys Tyr Pro Ile Thr Cys Phe
 35 40 45

Tyr Asn Cys Leu Phe Tyr Phe Pro Phe Phe Ser His Cys Leu His Ala
 50 55 60

Leu Phe Leu Val Leu Asn Ser Ile Thr Leu Ile His Cys Ser Ser Asn
 65 70 75 80

Phe Ile Leu Asn Asn Phe Pro Ile Tyr Leu Asp Ile Tyr Leu Asn Val
 85 90 95

His Ile Ser Pro Leu Ile Glu Val Cys Leu Val Ile Phe Gly Met Met
 100 105 110

Leu Asn Leu Phe Leu Trp Lys Gly Thr Asn Thr Cys Met Phe Met His
 115 120 125

Val Gln Lys Cys Ser His Arg Met Ile Ile Lys Ala Asp Leu Gly Lys
 130 135 140

Lys Thr Ser Leu Ile Phe Ile Phe His Ile Arg Phe Phe Glu
 145 150 155

<210> 170
 <211> 198
 <212> PRT
 <213> Homo sapiens

<400> 170

His Gln Asn Ser Pro Ile Tyr Leu Arg Ile Asn Val Asn Phe Glu Phe
 1 5 10 15

Asp Ile Thr Met Ile Lys Gly Ala Leu Ile Phe Ser Arg Ser Tyr Lys
 20 25 30

Ile Phe Val Asn Glu Leu Ile Gly Arg Ile Cys Leu Leu Lys Ser Glu
 35 40 45

Val Gly Gly Glu Leu Lys Leu Gly Leu Ile Gly Asn Tyr Ile Trp Val
 50 55 60

```

Met Asn Ala Trp Gly Phe Ile Ile Pro Leu Pro Leu Pro Leu Ser Val
65              70              75              80
Phe Glu Leu Cys His Cys Glu Asn Ile Val Leu Lys Ala Val Leu Phe
85              90              95
Phe Leu Leu Arg Gly Ser Lys Lys Ser Lys Lys Tyr Thr Gly Leu Ile
100            105            110
Glu Tyr Val Cys Ser Asn Lys Ile Pro Gly Phe Ser Phe Val Leu Ala
115            120            125
Ser Arg Asn Gln Val Gln Phe Val Ser Lys Asp Phe Ala Thr Cys Gly
130            135            140
Gly Lys Leu Leu Gln Asp Leu Ile Val His Ser Gln Arg Leu Ser Ala
145            150            155            160
Ala Arg Gln Ala Ala Phe Tyr Glu Asn Asp Asn Gln Lys Ala Gly Ala
165            170            175
Leu His Thr Gly His Ser Ser Asn Glu Ser Trp Asp Leu Asp His Gly
180            185            190
Ser Leu Thr Trp Ala Ala
195
<210> 171
<211> 176
<212> PRT
<213> Homo sapiens
<400> 171
Leu Lys Val His Val Leu Ile Tyr Ile His Gln Ile Thr Thr Thr Ser
1              5              10              15
Ser Phe Leu Phe Ile Ser Leu Leu Pro Phe Ile Ser Phe Ile His Met
20            25            30
Leu Ser Leu Asn Thr Leu Leu Leu Leu Thr Val Ile Phe Gln Ile
35            40            45
Ser Glu Lys Asn Leu Ile Leu Pro Tyr Ser Thr Phe Leu Met Leu Phe
50            55            60
Leu Phe Tyr Ala Val Leu Phe Asp Ile Ser His Arg Ala Gly Gln Leu
65            70            75            80
Ala Met Asn Tyr Ser Ser Phe Val Cys Gln Lys Ile Ser Leu Phe Leu
85            90            95
Ile Arg Ile Ile Leu Leu Asn Ala Glu Phe Gly Ser Phe Phe Val Ala
100           105           110
Thr Leu His Val Phe Ser Phe Leu Cys Val Cys Met Val Ser Glu Glu
115           120           125
Lys Asp Asn Val Ile Leu Ile Leu Phe Pro Leu Trp Ile Arg Cys Trp
130           135           140
Leu Phe Pro Leu Ser Ser Phe Phe Gln Asp Phe Leu Phe Ser Leu Val
145           150           155           160

```

00100US1.ST25.txt

Phe Cys Ser Leu Asn Met Ile Cys Leu Gly Gly Asp Leu Asp Leu Leu
 165 170 175

<210> 172
 <211> 195
 <212> PRT
 <213> Homo sapiens

<400> 172

Ala Tyr Arg Ile Ser Thr Thr Val Phe Ala Lys Glu Lys Ser Val Val
 1 5 10 15
 Ile Lys Phe Ile Leu Trp Leu Asn Tyr Val Leu Gln Phe Val Gly Pro
 20 25 30
 Val Thr Cys Gly Arg Gln Arg Ala Val Gly His Ser Val Lys Ala Thr
 35 40 45
 Thr Arg Val Leu Ser Ile Glu Ser Leu Cys Ile Met Val Leu Ala Arg
 50 55 60
 His Cys Ser Leu Thr Ser Ile Phe Leu Ser Gln Ser Ser Leu Arg Asn
 65 70 75 80
 Ala Cys Ser Thr Gly Leu Ile Ile Leu Thr Glu Thr Ser Gly His Phe
 85 90 95
 Met Ser Tyr Gly Met Leu Ala Glu Asp Ile Lys His Arg Cys Val Gly
 100 105 110
 Ile Gly Gly Glu Ser Thr Ala Ile Phe Gln Leu Gly Ala Pro Trp Phe
 115 120 125
 Pro Glu Ile Gln Ser His Gly Val Asn Gln Thr Pro Leu Ser Gly Ala
 130 135 140
 Leu Cys Ser Thr Gln Asp Pro Thr Leu Ser Gly Lys Leu Lys Thr Lys
 145 150 155 160
 Ser Leu Leu Tyr Ile Arg Phe Ile Lys Asn Ala Thr Ile Thr Lys Ser
 165 170 175
 Leu Trp Ala Cys Val Glu Asn Ala Val Ile Lys Leu Asn Ile Lys Ala
 180 185 190
 Ser Ser Lys
 195

<210> 173
 <211> 225
 <212> PRT
 <213> Homo sapiens

<400> 173

Gln Arg Leu Thr Tyr Ser Asn Cys Ile Val Asp Trp Ala His Thr Leu
 1 5 10 15
 His Val Thr Asn Val Ser Asn Tyr Trp Ile Cys Thr Ala Leu Pro Ala
 20 25 30
 Gly Leu Arg Met Ala Cys Leu Gly Thr Tyr Ile Leu Cys Leu Gln Arg
 35 40 45

Thr Gly His Gly Trp Arg Leu Gly Gly Pro Met Ala Asp Ala Trp Asn
 50 55 60
 Ala Thr Trp Gln Leu Trp Thr Lys Asp Ala Ala Arg His Met Val Cys
 65 70 75 80
 Pro Thr Pro Gly Trp Pro Ile Ala Phe Met Met Gly Leu Ala Ser Gly
 85 90 95
 Glu His Val Val Leu Pro Ala Gln Val Pro Gln Cys Ile Glu Gln His
 100 105 110
 Trp Gly Asn Thr Thr Val Gly Trp Val Pro Val Thr Ala Phe Ala Asn
 115 120 125
 Ile Thr His Val Thr Thr Lys Val Arg Pro Leu Thr Leu Cys Pro Leu
 130 135 140
 Gly Val Tyr Gly Ser Val Gly Thr Gln Ser Arg Phe Thr Tyr Pro Thr
 145 150 155 160
 Ala Leu Asp Ile Val Pro Gly Gly Gly Leu Met Cys Leu Pro Leu Phe
 165 170 175
 Ser Pro Cys Cys Pro Asp Ala Arg Ile Thr Gly Arg Cys Tyr Thr Leu
 180 185 190
 Ser Leu Cys Glu Cys Asn Glu Pro Pro Ala Val Leu Pro Phe Gly Ser
 195 200 205
 Asp Tyr Pro Trp Ser Gly Cys His Asn Cys Arg Ser Thr Gly Tyr Cys
 210 215 220
 Ser
 225
 <210> 174
 <211> 169
 <212> PRT
 <213> Homo sapiens
 <400> 174
 Phe Met Ile Gln Gln Ile Lys Cys Gly Asn Tyr Leu Lys Arg Lys Lys
 1 5 10 15
 Lys Asn Ile Trp Glu Ala Ala Glu Met Arg Thr Ile Arg Asn Glu His
 20 25 30
 Phe Tyr Phe Leu Ser Phe Leu Asn Gly Ala Ser Asp Ala Val Phe Ile
 35 40 45
 Ala Leu Phe Phe Pro Asn Trp Asn Ile Phe Phe Leu Ile Leu Leu Val
 50 55 60
 Tyr Ser Leu Val Thr Lys Lys Val Phe Arg Lys Tyr His Asn Phe Pro
 65 70 75 80
 Asn Ser Leu Leu Ser Ala Gly Asp Tyr Glu Tyr Ile Leu Gln Asn Gly
 85 90 95
 Lys Gly Gly Ser Ser Gly Pro Ala Thr Ile Cys Ile Leu Lys Asp Leu
 100 105 110
 Val Glu Leu Lys Ser Gln Arg Lys Trp Glu Glu Leu Ser Lys Tyr Phe

00100US1.ST25.txt
125

115 120
Ile Ile Phe Phe Leu Glu Tyr Gln Val Leu Ile His His Ile Phe His
130 135 140
His Val Ser Lys Ser Phe Phe Leu Lys Lys Val Cys Ile Tyr Ile Ser
145 150 155 160
Lys Arg Val Ser Val Val Lys Lys Asn
165
<210> 175
<211> 199
<212> PRT
<213> Homo sapiens
<400> 175
Glu Asn Thr Tyr Gly Lys Glu Leu Ser Val Arg Phe Gly Ser Gln Ile
1 5 10 15
Leu Ile Phe Asn Lys Ile Tyr Ile Cys Ser Pro Cys Thr Lys Gly Asn
20 25 30
Ser Thr Glu Ser Met Pro Asn Ser Lys Gly Met Thr Leu Asn Leu Tyr
35 40 45
Ser Lys Tyr Ile Gly Pro Ala Ile Leu Cys Gln Met Leu Tyr Leu Tyr
50 55 60
Leu Ile Ala Thr Arg Thr Gly Asn Cys Ala Gln Leu His Leu Arg Thr
65 70 75 80
Val Ser Ile Leu Lys His Thr Ser Tyr Ser Ser Ser Asp Pro His Trp
85 90 95
Met Lys Leu Asn Gln Thr Lys Gln Lys Ser Tyr Leu Ser Pro Asn Asn
100 105 110
Glu Arg Val Cys Arg Met His Ile Val Arg Leu Thr Asp Pro Phe Arg
115 120 125
Gln Tyr Val Gly Phe Pro Arg Ile Leu Ser Ala Ser Lys Gln Phe Glu
130 135 140
Phe Ser Ser Ala Leu Met Ile Trp Phe Pro His Leu Asp Gly Pro Gly
145 150 155 160
Ser Asp Ala Arg Gly Pro His Glu Met Ser Trp Ala Phe Ile Gln Asp
165 170 175
Pro Val Ala Pro Ala Gln Glu Asn Arg Pro Leu Arg Val Ser Gly Ser
180 185 190
Glu Met Ala Ser Val Thr Arg
195

<210> 176
<211> 204
<212> PRT
<213> Homo sapiens

<400> 176

Leu Phe Asn Phe Val Phe Val Ala Val Val Cys Ile His Val Cys Trp

1 5 10 15
 Cys Pro Tyr Val Leu Phe Gly Val Trp Leu Phe Ser Gln Asn Gln Val
 20 25 30
 Thr Val Lys Ser Leu Asn Phe Ser Ile Ser Leu Leu Ser Ser Gly Thr
 35 40 45
 Val Thr Val Cys Leu Leu Leu Lys Ser Phe Val Phe Leu Thr Arg Gly
 50 55 60
 Glu Val Tyr Ser Thr Leu Thr Gly Leu Tyr Phe Gly Leu Arg Pro Tyr
 65 70 75 80
 Lys Thr Phe Leu Lys Ser Leu Ile Ile Cys His Ile Ile Lys Lys Leu
 85 90 95
 Tyr Gly Ile Phe Ser His Tyr Ile Leu Ala Thr Met Pro Val Tyr Ile
 100 105 110
 Ser Lys Gln Thr Ile Cys Gly Asn Asn Leu Lys Lys Lys Ala Ile Gly
 115 120 125
 Ser Lys Tyr Leu Ile Lys Tyr Pro Leu Glu Leu Asn Ile Ser Ser Cys
 130 135 140
 Gly Ser Ser His Thr Lys Tyr Pro Thr Leu Leu Ser Phe Arg Val Leu
 145 150 155 160
 Ala Gly Thr Gly Ser Ile Lys Asp Asn Glu Leu Lys Lys Gly Thr Ile
 165 170 175
 Tyr Lys Tyr Val Ala Arg Leu Gly Glu Thr Ser Lys Val Gly Asn Ala
 180 185 190
 Ala Gln Asp Ser Asn Lys Ser Glu Asn Leu Phe Leu
 195 200

 <210> 177
 <211> 201
 <212> PRT
 <213> Homo sapiens

 <400> 177
 His Val Thr Leu Met Ser Thr Val Phe Ser Ser Val Ala Ser Thr Pro
 1 5 10 15
 Leu Pro Asn Ser Tyr Asp Asn Ser Ala Ser Gln Thr Tyr Gly Leu Arg
 20 25 30
 Asn Pro Leu Lys Ser Gln Leu Val Met Thr Pro Lys Arg Phe Phe Ile
 35 40 45
 Ile Ile Leu Tyr Ile Asn Ile Leu Leu Glu Val His Phe Tyr Glu Asn
 50 55 60
 Asn Leu Phe Ser Lys Ile Ser Glu Lys Asn Ser Ile Ile Leu His Ile
 65 70 75 80
 Gly Ile Phe Leu Met Pro Gly Leu Ile Glu Asp Asn Ile Phe Met Ser
 85 90 95
 Thr Ser Gly Phe Asp Leu Phe Gln Tyr Val Ser Leu Val Glu Ile His
 100 105 110

Glu Gly Asn Leu Gly Ser Ser Asp Ile Leu Glu Lys Gly Gly Val Phe
 115 120 125
 Gln Pro Phe Trp Thr Thr Val Asp Ile Val Leu Tyr Tyr Asn Lys Thr
 130 135 140
 Gly Glu Val Val Gly Ser Lys Leu Val Ala Thr Trp Asn Leu Lys Pro
 145 150 155 160
 His His Glu Leu Phe Val Ile Trp His Ile Lys Ile Tyr Leu Ser Ile
 165 170 175
 Leu His Phe Glu Trp Asp Pro Leu Leu Met His Leu Phe Val Thr Ile
 180 185 190
 Ile Ser Asn Thr Leu Val His Val Met
 195 200
 <210> 178
 <211> 216
 <212> PRT
 <213> Homo sapiens
 <400> 178
 Ile Lys Ile Pro Ala Val Lys Leu Asp Ser Ala Cys Leu Gly Ile Phe
 1 5 10 15
 Lys Arg Ile Met Tyr Arg Gly Cys His Gly Asn Ser Ser Ser Gly Asn
 20 25 30
 Ser Val Pro Phe Val Lys Thr Leu Lys Gly Glu Asp Lys Gln Phe Gly
 35 40 45
 Glu Ile Thr Ala Pro Glu Ile Glu Phe Ile Cys Asn Leu Gly Ser Leu
 50 55 60
 Val Cys Leu Pro Ala Ile His His Val Asp Glu Lys Gln Lys Asp Lys
 65 70 75 80
 Lys Asp Ser His Phe Lys Ala Pro Asn Cys Gln Phe His Ser Ile Ala
 85 90 95
 Asp Ser Gln His Arg Arg Lys Trp Asp Asn Ala Gly Arg His Tyr His
 100 105 110
 Arg Thr Val Ser Ser Lys Glu Lys Pro Asn Cys Tyr Phe Ser Met Ala
 115 120 125
 Glu Gly Gly Cys Phe Pro Arg Gly Arg Ile Leu Phe Asn Pro Val Arg
 130 135 140
 Ala Gln Leu Gln Pro Ser Val Thr Gly Gln Leu Pro Pro Ser Asn Pro
 145 150 155 160
 Glu Gly Arg His Glu Pro Tyr Ser Arg Thr Gly Ala Cys Ser Leu Leu
 165 170 175
 Ser Thr Ser Cys Thr Phe Arg Ala Pro Ala Trp Asp Ala Glu Asn Ser
 180 185 190
 His Pro Ser Arg Ala Ala Glu Asp His Met Thr Asp His Gln Leu Phe
 195 200 205

Leu Thr His Leu Ser Thr Thr Thr
210 215

<210> 179
<211> 189
<212> PRT
<213> Homo sapiens

<400> 179

Ser Gln Asn Phe Asp Leu Thr Asn Gln Arg Gly Gly Leu Val Phe Phe
1 5 10 15
Tyr Leu Leu Ser Ala Phe Cys Phe Arg Leu Leu Asn Leu Tyr Ile Lys
20 25 30
Thr Cys Tyr Thr His Leu Ala Val Phe Phe Phe Ala Ala Val Thr Ser
35 40 45
Phe Trp Leu Arg Phe Phe Phe Lys Lys Met Tyr Lys Thr Leu Gly Leu
50 55 60
Ile His Cys Ser Phe Phe Val Leu Ile His Pro Gln Glu Arg Lys Trp
65 70 75 80
Leu Ser Leu Tyr Val Phe Lys Gly Leu Cys Glu Leu Leu Lys Ala Ser
85 90 95
Val Thr Ala Arg Thr Ser Val His Lys Gln Val Gln Asp Ala Ala Glu
100 105 110
Gly Val Ser Ser Leu Thr Glu Arg Gly Ile Glu Leu Phe Arg Met Phe
115 120 125
Cys Val Gly Thr Asp Arg Leu Lys Ala Thr Asp Leu Met Gln Val Trp
130 135 140
Ser Phe Gln Gln Met Ser Ser Asn Leu Thr Asn Leu Asp Leu Val Phe
145 150 155 160
Pro His Gly Pro Arg Ser Ala Ile Leu Phe Phe Cys Leu His Leu Ile
165 170 175
Ser Tyr Ala His His Cys Ala Asn Ser Arg Leu Phe Ser
180 185

<210> 180
<211> 157
<212> PRT
<213> Homo sapiens

<400> 180

Val Ala Ile Cys Gln Val Pro Thr Asp Ile Pro Asn Ile Arg Leu Thr
1 5 10 15
Pro Ser Asn Gln His Pro Glu Phe Lys Val Cys Ile His Phe Leu Tyr
20 25 30
Phe Tyr Cys Ile Arg Ile Ser Leu Asn Ser Ser Val Phe Ser Thr Phe
35 40 45
Ile Tyr Gln Pro Tyr Leu Pro Phe Cys Asn Leu Leu Phe Ser Val Ser
50 55 60

Ile Ile Phe Met Arg Leu Met His Ile Ala Val Tyr Ser Phe Leu Leu
 65 70 75 80
 Leu Tyr Asn Ser Val Ile Pro Gly Met Gly Arg Gly Asn Trp Phe Gln
 85 90 95
 Asp Leu Cys Gly Leu Gln Asn Pro Ser Met Phe Lys Ser Leu Ile Asn
 100 105 110
 Glu Ala Val Leu Ala Tyr Asn Leu Cys Thr Phe Leu Arg Thr Leu Ser
 115 120 125
 Lys Cys Tyr Val Asn Gly Cys Phe Val Ile Cys Ile Ile Phe Ile Val
 130 135 140
 Met Phe Phe Leu Leu Phe Ser Pro Glu Phe Phe Phe Phe
 145 150 155
 <210> 181
 <211> 219
 <212> PRT
 <213> Homo sapiens
 <400> 181
 Val Thr Leu Val Cys Tyr Ser Leu Met Val Arg Ser Leu Ile Lys Pro
 1 5 10 15
 Glu Glu Asn Leu Met Arg Thr Gly Asn Thr Ala Arg Ala Arg Ser Ile
 20 25 30
 Arg Thr Ile Leu Leu Val Cys Gly Leu Phe Thr Leu Cys Phe Val Pro
 35 40 45
 Phe His Ile Thr Arg Ser Phe Tyr Leu Thr Ile Cys Phe Leu Leu Ser
 50 55 60
 Gln Asp Cys Gln Leu Leu Met Ala Ala Ser Val Ala Tyr Lys Ile Trp
 65 70 75 80
 Arg Pro Leu Val Ser Val Ser Ser Cys Leu Asn Pro Val Leu Tyr Phe
 85 90 95
 Leu Ser Arg Gly Ala Lys Ile Glu Ser Gly Ser Ser Arg Asn Gly Arg
 100 105 110
 Thr Ser Trp Val Ser Ile Gln Leu Gly Gly Arg Asp Ala Gln Gly Thr
 115 120 125
 Asp Leu Gly Asn Ala Lys Val Lys Leu Gly Lys Asn Glu Leu Gln His
 130 135 140
 His Gln Gln Leu Val Cys Thr Gln Met Ser Ala Gly Gly Arg Gly Ala
 145 150 155 160
 Gln Asp Leu Leu Lys Val Ser Cys Cys Lys Gly His Phe Tyr Ile Asp
 165 170 175
 Val Lys Val Asn Lys Ser Met Glu Arg Ala Thr Lys Thr Lys Glu Asn
 180 185 190
 Phe Leu Lys Glu Ser His Trp Ser Leu Val Ile Gln Val Ser Ala Gln
 195 200 205
 Met Ser Pro Leu Arg Asp His Ser Cys Pro Pro

210

215

<210> 182
 <211> 181
 <212> PRT
 <213> Homo sapiens

<400> 182

Gln Gly Glu Gly Gly Thr Gly Tyr Lys Arg Ser Ala Ala Ala Ala Pro
 1 5 10 15
 Ala Glu Ser Arg Arg Ala Gln His Ser Cys Pro Leu Asp Pro Ala Asp
 20 25 30
 Pro Ser Arg Ala Pro Ser Val Pro Gln Ala Gln Pro Pro Gly Gly Arg
 35 40 45
 Ala Glu Gly Ser Pro Gly Arg Cys Gln Gly Ala Ile Leu Glu Gly Gly
 50 55 60
 Arg Glu Glu Glu Val Arg Ala Ala Met His Thr Val Ala Thr Ser Gly
 65 70 75 80
 Pro Asn Ala Ser Trp Gly Ala Pro Ala Asn Ala Ser Gly Cys Pro Gly
 85 90 95
 Cys Gly Ala Asn Ala Ser Asp Gly Pro Val Pro Ser Pro Arg Ala Val
 100 105 110
 Asp Ala Trp Leu Val Pro Leu Phe Phe Ala Ala Leu Met Leu Leu Gly
 115 120 125
 Leu Val Gly Asn Ser Leu Val Ile Tyr Val Ile Cys Arg His Lys Pro
 130 135 140
 Met Arg Thr Val Thr Asn Phe Tyr Ile Gly Glu Cys Gly Pro Leu Arg
 145 150 155 160
 Arg Thr Cys Cys Arg Pro Gly Gly Leu Arg Gly Pro Ser Gly Leu Gly
 165 170 175
 Arg Pro Leu Ala Thr
 180

<210> 183
 <211> 227
 <212> PRT
 <213> Homo sapiens

<400> 183

Ile Ile Leu Gln Asp Asn Leu Lys Gln Tyr Leu Val His Ile Asn His
 1 5 10 15
 Phe Ile Ser Ala Gly Leu Leu Ser Phe Glu Asn Tyr Phe Tyr His Leu
 20 25 30
 Leu Leu Ala Thr Val Asn Leu Ser Asn Leu Val Ser His His Ser Leu
 35 40 45
 Ile Pro Cys Ser Ala Leu Val Thr Met Asn Leu Ser Leu Leu Leu Lys
 50 55 60
 Tyr Ala Ile Tyr His Val Phe Phe Phe Pro Phe Ser Leu Pro Glu Ala

```

65              70              75              80
His Thr Pro Ser Leu Gly Trp Leu Lys Ser His Asn Leu Thr Phe Gly
      85              90              95
Leu Thr Phe Tyr Asn Ser Leu Tyr Gln Pro Gln Asn Met Ala Trp Val
      100             105             110
Met Leu Ala Leu Thr Val Leu Asp Phe Ser Asp Pro Ser Leu Leu Ile
      115             120             125
Tyr Gln Pro Leu Ser Arg Ser Phe Gly Thr Tyr Ser Asp Phe His Thr
      130             135             140
Pro Glu Leu Phe Ala Ile Leu Phe Ile Trp Lys Ser Tyr Trp Val Ile
      145             150             155             160
Phe Leu Phe Lys Tyr Asn Leu Ile Ile Thr Pro Leu Val Tyr Leu Ala
      165             170             175
Leu Ser Cys Ser Leu Tyr Phe Pro Cys Pro His Leu Asn Ser Leu Thr
      180             185             190
Gly Glu Ile Asn Tyr Arg Tyr Thr Lys Gly Pro Asp Ser Lys Arg Asn
      195             200             205
Ile Gly Lys Ile Ser Ser Pro Ser Gln Pro Gly Tyr Gln Ile Lys Asp
      210             215             220
Arg Arg Leu
225
<210> 184
<211> 191
<212> PRT
<213> Homo sapiens
<400> 184
Pro Pro Thr Asp Ile Ser Val Cys Cys Ser Asp Gln Val Leu Gly His
1              5              10             15
His Gln Cys Pro Val Val Met Gly His Leu Lys Leu Tyr Leu Tyr Pro
      20              25              30
Ser Ala Leu Leu Leu Asp Leu Leu His His Leu Leu His Met Asp Leu
      35              40              45
Leu His Phe Gly Cys Val Val His His Leu His Thr Leu Pro Asn Lys
      50              55              60
Asn Ile Gln Lys Pro Ser Ser Gln His His Cys Pro Gly His His Ser
65             70             75             80
Ser Leu Phe Phe Leu Asn Pro Ser Leu His Glu Arg Gln Arg Arg Leu
      85             90             95
Thr Gly Ser Pro Leu Leu Val Asn His Met Lys Ile Lys His Ala Tyr
      100            105            110
Ser Val Leu Val Gln Gln Glu Ile Tyr Phe Gln Thr Arg Lys Ala Thr
      115            120            125
Glu Thr Leu Gly Ile Ile Leu Gly Ala Phe Ile Ile Cys Trp Leu Pro
      130            135            140

```

Leu Phe Ile Val Ser Leu Pro Ala Lys Ile Pro Pro Tyr Asp Ile Phe
 145 150 155 160

Ile Leu Leu Ser Phe Phe Phe Phe Phe Leu Ile Pro Ser Leu Thr
 165 170 175

Leu Val Ser Gln Ala Arg Met Gln Trp Tyr Asn Leu Ser Ser Leu
 180 185 190

<210> 185

<211> 76

<212> PRT

<213> Homo sapiens

<400> 185

Ile Leu Pro Ala His Leu Ile Pro Leu Gly Lys Leu Trp Cys Cys Leu
 1 5 10 15

Ser Arg Thr Glu Ala Glu Gly Trp Leu Ser Pro Thr Gly Ser Tyr Ser
 20 25 30

Leu Asn Ser Ala Ser Ser Pro Arg Leu Gly Glu Thr Thr Trp Gly His
 35 40 45

Arg Val Phe Ala Arg Cys His Phe Ala Phe Gln Thr Arg Ser Trp Ser
 50 55 60

Ser Gly Phe Arg Leu Gly Leu Trp Asn Ser Gly Ala
 65 70 75

<210> 186

<211> 99

<212> PRT

<213> Homo sapiens

<400> 186

Cys Arg Ala His His Ser Leu Thr Ser Phe Val Ser Trp Phe Arg Tyr
 1 5 10 15

Asp Leu Pro Tyr Pro Asp His Ser Ile Asn Cys Lys Leu Pro Val His
 20 25 30

Ser Ser Leu Ser Tyr Asn Thr Phe Pro Phe Ser Gln Arg Tyr Cys His
 35 40 45

Phe Val Ser Tyr Tyr Ile Thr Tyr Tyr Val Tyr Cys Leu Leu Arg Ile
 50 55 60

Leu Cys Ser Leu Met Tyr Leu Lys Tyr Leu Gly Gln Cys Ser Val His
 65 70 75 80

Val Thr Gly Val Gln Gln Arg Leu Leu Asn Glu Ile Phe Asp Asn Cys
 85 90 95

Asp Arg Tyr

<210> 187

<211> 194

<212> PRT

<213> Homo sapiens

<400> 187

Ala Glu Gln Val Leu Val Ile Phe Ala Glu Gln Val Leu Asn Glu Cys
 1 5 10 15
 Met Asn Lys Cys Met Asn Val Glu Met Lys Gly Asp Ala Asp Gly Asp
 20 25 30
 Asp Ala Asp Gly Asp Asp Asp Ala Asp Gly Asp Asp Ala Asp Gly Asp
 35 40 45
 Asp Ala Asp Gly Glu Gln Trp Pro Cys Arg Val Phe Ala Asp Leu Gly
 50 55 60
 Leu Ala Ser Gly Cys Gly Gly Ser Ala Ser Gln Gly Phe Glu Phe His
 65 70 75 80
 Leu Gln Cys Leu Pro Ala Met Pro Pro Trp Val Thr Phe Ile Leu Leu
 85 90 95
 Pro Gly Lys Trp Gly Cys Trp Gln Pro Leu Pro Pro Gly Ile Thr Asp
 100 105 110
 Thr Ala Trp Ser Gly Cys Asp Pro Phe Gly Tyr Arg Arg Gly Trp Trp
 115 120 125
 Thr Ser Gln Val Gly Arg Ser Ser Leu Asp Glu Arg Pro Arg Thr Ile
 130 135 140
 His Arg Arg Ala Gln Glu Ser Leu Leu Ser Pro Ser Asn Ser Thr Glu
 145 150 155 160
 Pro Ala Val Asn Cys Trp Leu Leu Pro Val Thr Phe Pro Cys Pro Tyr
 165 170 175
 Phe His Ser Leu Glu Ala Ala Arg Thr Thr Ala Gly Trp Pro Trp Pro
 180 185 190

Leu Pro

<210> 188

<211> 178

<212> PRT

<213> Homo sapiens

<400> 188

Ser Phe Ser Leu Gly Asn Phe Val Val Ala Ser Leu Tyr Ser Cys Cys
 1 5 10 15
 Phe Asn Asn Phe Val Leu Phe His Ser Phe Thr Val Thr Val Cys Val
 20 25 30
 Asp Ser Phe Ser Ser Ser Val Lys Ile Met Ser Pro Glu Ser Ser Phe
 35 40 45
 Ile Thr Leu Asp Arg Thr Arg Thr Leu Ser Ile Lys Ser Met Leu Phe
 50 55 60
 Val Ile Thr Glu Gln Phe Ser Ala Val Ile Ser Leu Ile Val Thr Phe
 65 70 75 80
 Leu Phe Ile Pro Phe Ser Leu Ser Lys Met Pro Leu Phe Val Tyr Trp
 85 90 95

Ser His Arg Ser Glu Ile Cys Glu Phe Ala Ile His Val Ser Tyr Leu
 100 105 110

Phe Ala Asn Gly Phe His Val Ser Lys Ser Leu Phe Ser Ile Val Arg
 115 120 125

Tyr Tyr Leu Tyr Cys Phe Val Gln Asn Ile Asn Leu Val Leu Phe Ile
 130 135 140

Asp Tyr Ser Leu Val Leu Leu Leu Asn Phe Ile Gln Glu Cys Val Phe
 145 150 155 160

Leu Ser Asp Tyr Phe Phe Leu Pro Asn Cys Ile Phe Leu Arg Gly Leu
 165 170 175

Ile Ile

<210> 189

<211> 76

<212> PRT

<213> Homo sapiens

<400> 189

Pro Arg Glu Ala Lys Arg Leu Asp Ile His Ala Pro Leu Leu Ser Leu
 1 5 10 15

Pro Asp Cys His Leu Leu Met Ala Ala Ser Val Ala Tyr Lys Ile Trp
 20 25 30

Arg Pro Leu Gly Ser Val Ser Asn Cys Leu Asn Pro Leu Leu Tyr Phe
 35 40 45

Leu Ser Arg Gly Ala Lys Phe Glu Ser Gly Ser Ser Arg Asn Gly Arg
 50 55 60

Thr Ser Trp Val Ser Ile Gln Leu Gly Gly Arg Asp
 65 70 75

<210> 190

<211> 189

<212> PRT

<213> Homo sapiens

<400> 190

Ser Leu Val Ile Leu Val Cys Tyr Ser Leu Met Val Arg Ser Leu Ile
 1 5 10 15

Lys Pro Glu Glu Pro His Glu Val Gln Ala Thr Gln Pro Glu Pro Gly
 20 25 30

Pro Ser Gly Thr Ile Leu Leu Val Cys Gly Leu Phe Thr Leu Cys Phe
 35 40 45

Val Pro Phe His Ile Thr Arg Ser Phe Tyr Leu Thr Ile Cys Phe Leu
 50 55 60

Leu Ser Gln Asp Cys Gln Leu Leu Met Ala Ala Ser Val Ala Tyr Lys
 65 70 75 80

Ile Trp Arg Pro Leu Val Ser Val Ser Ser Cys Leu Asn Pro Val Leu
 85 90 95

Tyr Phe Leu Ser Arg Gly Ala Lys Ile Glu Ser Gly Ser Ser Arg Asn
 100 105 110
 Gly Arg Thr Ser Trp Val Ser Ile Gln Leu Gly Gly Arg Asp Ala Gln
 115 120 125
 Gly Thr Asp Leu Gly Asn Ala Lys Val Lys Leu Gly Lys Asn Glu Leu
 130 135 140
 Gln His His Gln Gln Leu Val Cys Thr Gln Met Ser Ala Gly Gly Arg
 145 150 155 160
 Gly Ala Gln Asp Leu Leu Lys Val Ser Cys Cys Lys Gly His Phe Tyr
 165 170 175
 Ile Asp Val Lys Val Asn Lys Ser Met Glu Arg Ala Thr
 180 185
 <210> 191
 <211> 208
 <212> PRT
 <213> Homo sapiens
 <400> 191
 Ser His Ile Ser Pro Gly Thr Gly Cys Leu Ser Leu Pro Ala Ile Val
 1 5 10 15
 Trp Ala Leu Ala Gly Ser Ser Pro Trp Glu Met Trp Ala Arg His Ser
 20 25 30
 Asp Arg Ser Gln Ser Ala Gly Ala Gly Ala Phe Gly Leu Ser Ser Pro
 35 40 45
 Met Glu Val Ser Glu Pro His Ser His Ser Tyr Arg Arg His Gln Asn
 50 55 60
 Ser Leu Tyr Val Glu Pro His Lys Val Glu Thr Val Asn Ser Cys Arg
 65 70 75 80
 Asn Leu Leu Trp Asn Thr Thr Val Phe Glu Ser Gly Ser Asp Leu Thr
 85 90 95
 Ser Ser Val Thr Leu Gly Lys Leu Leu Leu Pro Trp Thr Pro Thr Thr
 100 105 110
 His Leu Asp Val Gly Asn Asn Asp Thr Glu Phe Ile Gly Leu Arg Leu
 115 120 125
 His Leu Met Gly Thr Leu Glu Gln Cys Gln Thr Gln Thr Thr Asn Ala
 130 135 140
 Gln Lys Leu Val Phe Ile Ile Ala Phe His Phe Asn Cys Gly Leu Leu
 145 150 155 160
 Gly Leu Asn Cys Val Pro Ser Lys Arg Tyr Ile Gly Val Leu Thr Leu
 165 170 175
 Ser Thr Ser Glu Cys Asp Cys Thr Trp Arg Leu Gly Leu Tyr Arg Asp
 180 185 190
 Asn Arg Val Lys Met Glu Leu Gln Gly Trp Ser Leu Ile Gln Cys Asp
 195 200 205

<210> 192
 <211> 211
 <212> PRT
 <213> Homo sapiens

<400> 192

```

Ile Leu Ser Ser Ser Leu Cys Leu Arg Pro Pro Ser Pro Glu Pro Ser
1          5          10          15
Glu Leu Ser Ala Ser Ser Leu Phe Ala Pro Pro Cys Cys Arg His Arg
20          25          30
Arg Phe Gly Ser Val Pro Ala Glu Val Gly Lys Asp Thr Trp Asn Ser
35          40          45
Gly Arg Pro Leu Cys Ser Pro Leu Ala Arg Ser Lys Ala Val Lys Asp
50          55          60
Thr Ala Ser Pro Gly Ser Cys Ser Ser Leu Asn Pro Thr Val Asp Leu
65          70          75          80
Val Gly Arg Leu Arg Ala Gln Ile Cys Arg Cys Ser Ile Val Ser Ser
85          90          95
Val Ser Cys Pro Leu Leu Pro Pro Gly Val Asp Ser Cys Thr Val His
100         105         110
Pro Thr Pro Ala Phe Pro Ser Phe Leu Ile Ser Pro Val Ile Phe Pro
115         120         125
Val Ala Leu Leu Cys Trp Cys Pro Val Arg Ser Cys Gly His Lys Arg
130         135         140
Leu His Glv Pro His Pro Gln Leu Gly Glu Ser Ser Pro Ser Trp Val
145         150         155         160
Leu Trp Thr Val Lys Lys Asp Gly His Val Gly Ser Val Glu His Glu
165         170         175
Val Val Gln Asp Leu Gly Gly His Arg Ser Cys Leu Pro Ala Ser Arg
180         185         190
Ala Leu Pro Pro Phe Gly Ser Leu Leu His Leu Gly Lys Arg Phe Val
195         200         205

Pro Thr Pro
210

```

<210> 193
 <211> 208
 <212> PRT
 <213> Homo sapiens

<400> 193

```

Asn Met Ser Tyr Ser Ser Arg Val Asn Ser Leu Leu Leu Phe Ser Phe
1          5          10          15
Asn Phe Ser Tyr Ile Ile Phe His Ile Asn Phe Arg Ile Ser Leu Val
20          25          30
Trp Gly Val Ile Gln Val Asn Leu Ile Lys Phe Gly Glu Gly Phe Thr
35          40          45

```

Ile His Leu Ile Asn Phe Gly Arg Val Val Met Leu Met Phe Ser His
 50 55 60
 Tyr Ile Leu Lys Cys Asp Ile Ser Phe His Leu Phe Val Leu Asp Gln
 65 70 75 80
 Ala Leu Val Ala Ser Ser Glu Asn Leu Leu Asn Ser Arg Asn Asn Phe
 85 90 95
 Phe His Leu Leu Thr His Phe Leu Thr Ile Cys Phe Leu Pro Leu Val
 100 105 110
 Leu Cys Leu Val Asn Tyr Phe Leu Leu Ile Ser Pro Leu Gln Ile Leu
 115 120 125
 Tyr Ala Ile Arg Lys Gly Val Thr Asp Leu Val Ile Glu Thr Gln Tyr
 130 135 140
 Thr Phe Val Gly Met Met Lys Ala Leu Gly Ile Phe Ser Tyr Tyr Val
 145 150 155 160
 His Leu Ile Ile Leu Lys Leu Ser Ser Tyr Val Glu Pro Ile His Lys
 165 170 175
 Ser Arg Ser Phe Asp Phe Lys Ser Cys Ile Phe Pro Tyr Phe Gln Tyr
 180 185 190
 Leu Ile Gly Glu Val Thr Cys Asn Ala Ile Val Leu Gln Phe Tyr Ile
 195 200 205
 <210> 194
 <211> 213
 <212> PRT
 <213> Homo sapiens
 <400> 194
 Met Thr Gly Asn Ala Val Val Leu Trp Leu Leu Gly Phe Arg Met Arg
 1 5 10 15
 Arg Asn Ala Phe Ser Ile Tyr Ile Phe Asn Leu Ser Met Ala Asp Phe
 20 25 30
 Leu Phe Leu Arg Ser His Ile Ile Arg Phe Pro Leu Ser Leu Ile Asn
 35 40 45
 Ile Leu His Pro Ile Phe Lys Ile Leu Ser Pro Val Met Met Phe Ser
 50 55 60
 Tyr Leu Ala Ser Leu Ser Phe Leu Ser Ala Met Ser Thr Glu Arg Cys
 65 70 75 80
 Leu Tyr Val Leu Trp Pro Ile Trp Arg Cys Arg Pro Arg Pro Tyr Thr
 85 90 95
 Cys Gln Arg Ser Cys Val Ser Cys Ser Gly Pro Cys Leu Cys Cys Gly
 100 105 110
 Ala Ser Trp Ser Gly Val Ser Val Thr Ser Cys Leu Val Val Leu Ile
 115 120 125
 Leu Phe Gly Val Lys His Gln Ile Ser Ser Gly Gly Phe Phe Tyr Val
 130 135 140
 Trp Leu Ser Val Val Pro Ala Trp Ser Cys Trp Ser Gly Ser Phe Val

00100031.S123.CAT

145 150 155 160

Gly Pro Gly Arg Cys His Pro Gly Cys Thr Pro Ser Cys Ser Arg Trp
165 170 175

Ser Ser Ser Phe Cys Gly Leu Pro Phe Gly Ile Arg Phe Phe Leu Phe
180 185 190

Ser Trp Asn His Val Asp Leu Glu Val Leu Tyr Cys His Val His Leu
195 200 205

Val Ser Ile Phe Leu
210

<210> 195
<211> 190
<212> PRT
<213> Homo sapiens

<400> 195

His Thr His Thr His Thr His Thr His Thr His Thr His Thr Arg Thr
1 5 10 15

His Pro Ile Asn Gly Phe Pro Gly Gly Arg Ala Ser Val Pro Leu Thr
20 25 30

Ala Gly Pro Pro Gly Pro Ala Lys Gly Ala Lys Ser His Ser Asp Ile
35 40 45

Asn Ser Trp Phe Gln Ser Asn Lys Gln Ser Asn Val Arg Lys Val Ile
50 55 60

Arg Leu Lys Gly Phe Glu Gly Lys Ser His Gln Lys Val Lys Leu Asp
65 70 75 80

Pro Thr Ser Thr Ser Trp Met Ser Tyr Leu Ile Ser Leu Ala Ser Val
85 90 95

Phe Ser Pro Ile Lys Lys Pro Glu Asp Leu Pro His Gln Ala Val Leu
100 105 110

Lys Leu Asn Glu Leu Ile Pro Val Gln Ala Glu Asn Ser Ile Tyr Ser
115 120 125

Ile Ser Gln Leu Leu Leu Leu Leu Leu Leu Cys Thr Trp Leu Ser
130 135 140

Leu Phe Ser Phe Ile Asn Tyr Tyr Ser Leu His Leu Phe Ala Ala Thr
145 150 155 160

Trp Ser Ser Trp Asn Pro Phe Thr Ala Tyr Ser Arg Glu Thr Gly Glu
165 170 175

Gly Arg Cys His Leu His Ser His Trp Asp Ala Pro Ala Pro
180 185 190

<210> 196
<211> 138
<212> PRT
<213> Homo sapiens

<400> 196

Glu Asn Leu Phe Phe Lys Gly Lys Phe Val Ser Asn Thr Leu Pro His

```

1           5           10           15
Ser Phe Ile Arg Gln Cys Phe Leu Cys His Phe Ser Ala Arg Ile Leu
      20           25           30
Leu Leu Gly Ile Glu Phe Thr Val His Ser Ser Val Leu Ser Val Leu
      35           40           45
Gln Lys Tyr Tyr Leu Phe Pro Ser Asn Leu His Gly Phe Arg Trp Lys
      50           55           60
Ile Cys Cys Gly Leu His Tyr Cys Phe Ser Val Arg Asn Val Pro Phe
      65           70           75           80
Phe Leu Cys Leu Leu Ser Arg Phe Leu Ile Phe Phe Phe His Phe Gln
      85           90           95
Lys Leu Asn Val Phe Gly Cys Ile Leu Phe Arg Val Cys Ser Cys Phe
      100          105          110
Leu Glu Tyr Leu Gly Leu Cys Ser Ser Ile Leu Ile Trp Glu Gly Ser
      115          120          125
His Tyr Phe Leu Ile Val Phe Ser His Ile
      130          135
<210> 197
<211> 175
<212> PRT
<213> Homo sapiens

```

<400> 197

```

Ser Asp Ser Pro Ile Tyr Asn Leu Cys His Thr Asn Arg Leu Asn Pro
1           5           10           15
His Cys Glu Phe His Thr Cys Val Asp Val Ser Thr Ser Arg Asp Gly
      20           25           30
Cys Ile Phe Phe Ile Phe Leu His Thr Phe Leu Glu Tyr Phe Ile Ser
      35           40           45
Met Val Leu Gln Ile Leu Leu Pro Thr Tyr Cys Gly Phe Lys Ala Met
      50           55           60
Glu Lys Thr Lys Ser His Arg Ser Lys Tyr Cys Arg Lys Gln Asn Ser
      65           70           75           80
Trp Val Asp Leu Ile Phe Leu Tyr Lys Asn Tyr Gly Tyr Gly Tyr Met
      85           90           95
Tyr Leu Cys Met Ser Val Ala Lys Ile Asn Lys Met Asn Thr Phe Asn
      100          105          110
Leu Arg Val Pro Ile Ile Gln Phe Thr Ser Phe Cys Pro Thr Thr Leu
      115          120          125
Glu Ala Lys Thr Leu Val Glu Thr Leu Met Cys Phe Thr Ser Asn Ser
      130          135          140
Ser Leu Ala Leu Asn Ile Pro Leu Phe Val His Pro Leu Ser Asp Ala
      145          150          155          160
Ile Leu Leu Val Lys Gln Gln Thr Ser Thr His Arg Lys Leu Glu
      165          170          175

```

<210> 198
 <211> 177
 <212> PRT
 <213> Homo sapiens

<400> 198

```

Ser Arg Lys Gly Arg His Trp Arg Gly Cys Leu Leu Thr Leu Leu Met
1          5          10          15
Leu Val Ala Val Val Val Cys Phe Ser Pro Tyr His Leu Asn Ile Lys
          20          25          30
Gln Phe Met Ala Arg Gly Met Leu His Leu Pro Ser Cys Ala Glu Arg
          35          40          45
Arg Ala Phe Leu Leu Ser Leu Gln Ala Thr Val Ala Leu Met Asn Met
          50          55          60
Asn Cys Gly Ile Thr Pro Ser Phe Thr Ser Leu His Pro Pro Ile Thr
65          70          75          80
Gly Asn Gly Ser Trp Ala Phe Ser Ser Lys Gly Leu Pro Pro Pro Pro
          85          90          95
Pro Pro Pro Pro Pro Gln Glu Lys Leu Leu Gln Lys His Gln Val Ser
          100          105          110
Pro Arg Pro Glu Val Leu Cys Ser Arg Ser Thr Trp Ser Asn Val Ser
          115          120          125
Phe Ala Leu Leu Tyr Leu Gly Arg Gly Pro Ala Leu Gly Tyr Ser Tyr
          130          135          140
Asn Leu Gly Lys Arg Phe Phe Lys Glu Lys Asn Thr Glu Glu Ile Gln
145          150          155          160
Asn Ala Gly Arg Gly Gly Ser Arg Leu Ser Pro His Phe Gly Arg Pro
          165          170          175

```

Arg

<210> 199
 <211> 202
 <212> PRT
 <213> Homo sapiens

<400> 199

```

Val Tyr Glu Cys Tyr Ile Phe Gly His Cys Trp Asp Val Ala Ser His
1          5          10          15
His Leu Thr Ser Leu Asn Leu Ser Gly Leu Thr Cys Glu Met Gly Ala
          20          25          30
Leu Thr Phe Thr Cys Leu Gln Ala Cys Ser Gln Ile Arg Cys His Leu
          35          40          45
Lys Asp Phe Ser Ser Pro Gly Asp Phe Lys Arg Leu Leu Arg Gly His
          50          55          60
Phe Phe Ser Gly Cys Gly Arg Ser Met Ile Arg Val Ile Arg Met Gly
65          70          75          80

```

Leu Leu Glu Glu Arg Gly Gly Gln Arg Leu Leu Phe His Phe Met Ala
 85 90 95
 Pro Ser Gly Gln Arg Thr Asp Ser Ala Thr Ala Ala Thr Arg Ala Leu
 100 105 110
 Pro Gly Leu Trp Ser Gln Leu Ser Gln Gln Glu Phe Gln Lys Ala Lys
 115 120 125
 Gly Ser Glu Leu His Pro Ser Phe Leu Ala Asp Cys His Pro Ala Ser
 130 135 140
 Ser His Ser Pro Gln Gly Tyr Val Met Leu Ala Leu Lys Ala Ser Leu
 145 150 155 160
 Gly Arg Gly Cys Ile Cys His Pro Leu Pro Cys Lys Ile Phe Glu Val
 165 170 175
 Gln Arg Ala Leu Gln Ala Glu Pro His Pro Leu Leu His Ser Pro Ser
 180 185 190
 Val Gly Met His Ser Pro Ser Val Gly Met
 195 200
 <210> 200
 <211> 175
 <212> PRT
 <213> Homo sapiens
 <400> 200
 Leu Pro Pro Pro Ile Leu Val Pro Thr Val Val Thr Glu Glu Ile
 1 5 10 15
 Phe Ser Ser Ser Thr Ala Thr Leu Lys Gly Pro Ser Val Pro Phe Gly
 20 25 30
 Gly Leu Gly Ile Asp Leu Pro His Arg Ser Ser Leu Ala Pro Met His
 35 40 45
 Thr Phe Arg Asp Leu Arg Thr Gly Pro Leu Cys Leu Pro Leu Ser Leu
 50 55 60
 Leu Val Arg Lys Asp Trp Pro Ala Cys Leu His Pro Gln Gln Ser Ile
 65 70 75 80
 Ala Thr Ala Pro Ser Cys Ala Thr Glu Glu Leu Thr Asp Thr Thr His
 85 90 95
 Thr Val Tyr Ser Arg Arg Asn Pro Met Gly Pro Ile Ile Leu Cys Pro
 100 105 110
 Pro Trp Ile Lys Thr Lys Val Leu Tyr Ala Thr Asn Thr Thr Ala Ile
 115 120 125
 Ser Thr Gly Lys Ser Leu Ser Leu Gln Lys Pro Ile Gln Lys Pro Arg
 130 135 140
 Arg Ser Asn Cys His Thr Lys Tyr Thr Asp Thr Asn Leu Arg Thr Glu
 145 150 155 160
 Thr Glu Asn Lys Glu Thr Trp His Phe Leu Lys Glu His Asn Asn
 165 170 175

<210> 201
 <211> 178
 <212> PRT
 <213> Homo sapiens

<400> 201

```

Leu Gly Phe Leu Leu Thr Asp Val Gln Ser Val Phe Gly Tyr Leu Gln
1          5          10          15

His Glu Thr His Tyr Cys Ser Ala Thr Ile Gly Arg His Trp Pro Ala
20          25          30

His Pro Leu Met Arg Cys Trp Asn Pro Phe Phe Ile Leu Lys Tyr Leu
35          40          45

Ile Asp Lys Asn Cys Val Cys Ser Arg Cys Asp Val Met Leu Arg Ser
50          55          60

Arg Tyr Ile Gln Val Tyr Leu Pro Gln Ser Asn Leu Thr Asn Leu Ser
65          70          75          80

Pro Pro Met Ile Thr Ile Met Leu Arg Gly Gly Ser Glu Asp Thr Lys
85          90          95

Asp Leu Leu Ser Tyr Gln Ile Ser Ser Gln Gln Tyr Ser Ile Ile Asn
100         105         110

Thr Val Thr Met Leu Cys Ile Arg Ser Pro Glu His Val Thr Glu Gly
115         120         125

Leu Tyr Leu Leu Thr Asn Ile Ser Pro Ala Leu His Glu Trp Met Val
130         135         140

Ser Ile Phe Gln Thr His Ser Gln Asp Phe Ala Trp Leu Ala Thr Ser
145         150         155         160

Ile Ser Pro Glu Lys Val Gln Lys Ser Arg Pro Ser His Arg Asn Ser
165         170         175

Asp Ala

```

<210> 202
 <211> 196
 <212> PRT
 <213> Homo sapiens

<400> 202

```

Tyr Gly Ala Leu Tyr Lys Tyr Lys Gln Gln Ser Leu Thr Phe Leu Ser
1          5          10          15

Leu Gln Leu Leu Thr Leu Ala Gly Ser Arg Ile Lys Met Pro Asn Ser
20          25          30

Thr Gln Lys Pro Trp Pro Val Ser Leu Pro Lys Met Glu Phe Arg Leu
35          40          45

Thr Ala Gly Asn Arg Asn Cys Ser Phe Lys Ala Ile Ala Trp Ala Met
50          55          60

Val Pro Ile Phe Val Asn Ile Gly Phe Cys Leu Asn Ser Val Ser Arg
65          70          75          80

```

Val Asp Tyr Ile Ile Cys Lys Val Cys Lys Met Lys Val Trp Gly Ser
 85 90 95
 Ser Ser Lys Tyr Lys Gln Lys Val Leu Leu Ser Val Ser Lys Tyr Lys
 100 105 110
 Met Phe Pro Leu Ser Val Ile Tyr Phe Ser Thr Cys Tyr Val Phe Gln
 115 120 125
 Phe Val Cys Phe Val Phe Pro Leu Leu Phe Tyr Val Leu Leu Cys Lys
 130 135 140
 Lys Ile Lys Asn Leu Asn Tyr His Asn Lys Phe Ser His Ser Phe Leu
 145 150 155 160
 Cys Cys Ala Val Ser Ile Asn Ala Asn Ile Lys Ala Phe Asn Leu Tyr
 165 170 175
 Ile Glu Ser Gln Lys Leu His Asn Thr Tyr Phe Ile Val Cys Thr Cys
 180 185 190
 Met Tyr Ile Leu
 195
 <210> 203
 <211> 212
 <212> PRT
 <213> Homo sapiens
 <400> 203
 Ser Gly Val Ile Asn Leu Leu Tyr Ile Cys Val Tyr Val Cys Ile Phe
 1 5 10 15
 Leu Pro Asn Arg Cys Asn Thr Lys Tyr Ser His Gly Val Ile Thr Phe
 20 25 30
 Ser Gln Leu Thr Leu His Pro Tyr Ile Ile Glu Glu Arg Ser Thr Ser
 35 40 45
 Ile Leu Phe Leu Leu Val Ile Ala Leu Met Ser Glu Tyr Lys Leu Asp
 50 55 60
 Ser Ser Val Ala Asn Asn Thr Arg Gln Ser Lys Asp Phe Ser Cys Cys
 65 70 75 80
 Arg His Ile Phe Leu Ile Tyr Trp Lys His Lys Cys Val Pro Pro Asn
 85 90 95
 Phe Ile Val Asp Arg Asn Met Lys Asn Phe Ile Lys Leu Lys Thr Gly
 100 105 110
 Ser Leu Pro Asp Leu Pro Val Ile Leu Pro Thr Leu Gln Ile His Pro
 115 120 125
 Ile Val Pro Ala Ser Phe Thr Met Lys Lys Tyr Glu Thr Cys Leu Thr
 130 135 140
 Trp Ser Leu Cys Leu Arg Glu Thr Cys Val Cys Leu Trp Asn Thr Leu
 145 150 155 160
 Thr Lys Ile Pro Ala Leu Val Asp Lys Thr Gly Phe Gln Ser Ser Leu
 165 170 175
 Asn Ser His Phe Val Leu Asn Lys Val Val Ser Lys Thr Arg Cys Ser


```

180              185              190
Lys Tyr Tyr Cys Ser Asp Ala Ile Ser Lys Thr Val Leu Ile Pro Cys
195              200              205

Gly Arg Glu Asn
210

<210> 204
<211> 172
<212> PRT
<213> Homo sapiens

<400> 204

Asn Lys Ile Val Phe Ile Phe Ser His Asp Cys Leu Trp Arg Lys Ile
1              5              10              15
Ser Lys Asn Leu Pro Lys Thr Asn Ala Ile Leu Ser Arg Val Lys Glu
20              25              30
Thr Arg Ser Ser Leu Phe Cys Thr Leu Tyr Phe Cys Ile Ser Val Leu
35              40              45
Phe Leu Tyr Gly Ser Asn Asp Gln Leu Glu Ile Lys Ile Leu Lys Gln
50              55              60
His Gln Lys His Lys Met Leu Ser Tyr Lys Ser Asn Lys Thr Tyr Thr
65              70              75              80
Asp Ser Val Pro Lys Thr Val Asn Val Tyr Leu Lys Asn Gln Arg Arg
85              90              95
Ala Glu Gln Arg Ala Thr Ser Cys Leu Leu Leu Glu Asn Ser Ile Glu
100             105             110
Leu Arg Tyr Lys Phe Pro Gln Ser Asp Leu Asp Ala Thr Gln Phe His
115             120             125
Ser Asn Pro Ser Arg His Phe Leu Leu Lys Ser Thr Ser Cys Phe Ile
130             135             140
His Thr Lys Ile His Lys Asn Lys Lys Ala Lys Ile Leu Leu Lys Glu
145             150             155             160
Asn Lys Phe Arg Arg Leu Leu Leu Ser Asp Phe Arg
165             170

<210> 205
<211> 313
<212> PRT
<213> Homo sapiens

<400> 205

Val Pro Lys Ile Phe Ser Phe Ser Ser Phe Gln Asn Tyr Phe Leu
1              5              10              15
Ile Leu Val Lys His Thr Ser Ser Asn Ile Thr Tyr Tyr Leu Val Phe
20              25              30
Thr Tyr Ile Thr His Ser Leu Asn Lys Phe Val Glu Met Ile Ile Leu
35              40              45
Lys Ile Leu Val Phe Lys Phe Met Ser Ser Gln Lys Leu Leu Pro Arg

```

```

50                               55                               60
Ile Ser Ile Leu Asn Ile Trp Ile Asn Ile Leu Phe Tyr Thr Pro Tyr
65                               70                               75                               80
Asn Ile Leu Leu Ala Ile Ile Ile Phe Phe Arg Ile Cys Ser Thr Ser
85                               90                               95
Asn Phe Phe Asp Phe Leu Ile Leu Lys Arg Ile Ile Tyr Ala Asn Gln
100                             105                             110
Gln Cys Lys Asp Phe Ser Trp Phe Thr Arg Val Lys Leu Phe Ser Arg
115                             120                             125
Met Val Gly Ser Phe Ala Tyr Ile Lys Leu Met Tyr Arg Ser Ala Ser
130                             135                             140
Ser His Ile Lys Val Gln Ser Leu Leu Lys Lys His Phe Ile Ser Asn
145                             150                             155                             160
Gln Phe Val Phe Leu Tyr Thr Leu Lys Pro Phe Asn Cys Phe Tyr Phe
165                             170                             175
Ser Ile Leu Thr Ser Ile Ser Cys Tyr Ser Gln Trp Pro Ala Ser Ser
180                             185                             190
Leu Ala Ile Arg Gln Leu Phe Val Tyr Leu Ala Lys Tyr Ile His Ala
195                             200                             205
Leu Lys Ile Pro Phe Pro Asn Ile Tyr Tyr Asp Phe Phe Lys Gly Phe
210                             215                             220
Ser Phe Val Thr Met Thr Leu Lys Ala Lys Val Ser Arg Cys Cys Ile
225                             230                             235                             240
Thr Val Gly Ser Thr Ile Met Tyr Gln Glu Gly Arg Glu Asn Gln Gly
245                             250                             255
Thr Phe Leu Trp Glu Tyr Pro Ile Ile Cys Gln Ile Tyr Ser Asn Ser
260                             265                             270
Leu Arg Thr Ile Thr Phe Val Phe Thr Val Phe Pro Met Gln Phe Leu
275                             280                             285
Arg Phe Ile Phe Lys Asn Phe Leu Gly Glu Met Asp Tyr Ser Leu Leu
290                             295                             300
Ser Ala Val Ile His Asn Phe Tyr Phe
305                             310
<210> 206
<211> 318
<212> PRT
<213> Homo sapiens
<400> 206
Pro Phe Tyr Tyr Ser Met Leu Val Pro Thr Ser Gly Leu Ser Thr Cys
1                               5                               10                               15
Cys Ser Phe Cys Leu Glu Ser Ser Ser Pro Asp Leu Leu Arg Phe Pro
20                              25                              30
Leu Ser Ile Arg Val Ser Ala Val Ile His Pro Gln Arg Arg Ser Pro
35                              40                              45

```

Asp Pro Val Lys Pro Pro Ile Pro Gln Ser Pro Tyr Val Ser Thr Ser
 50 55 60
 Leu Tyr Leu Ile Ser Gln His Leu Leu Ile Ser Leu Thr Leu His Tyr
 65 70 75 80
 Met Cys Cys Tyr Met Phe Val Ile Leu Ser Ser Gly Pro Cys Asn Val
 85 90 95
 Arg Met Ala Gln Tyr Lys Trp Gln Glu Gly Cys Arg Gly Val Asp Lys
 100 105 110
 Ala Glu Ser Gly Trp Gly Ser Trp Arg Asp Gly Gln Gly Pro Glu Leu
 115 120 125
 Arg Arg Trp Tyr Leu Gln Cys Ala Leu Asn Cys Pro Gly Met Ile Ile
 130 135 140
 Ser Ile Ala Ser Phe His Ser Gln Arg Cys Pro Gly Tyr Tyr Ser Cys
 145 150 155 160
 Ser Val Tyr Arg Ala Trp Ala Val Gly Ile Leu Phe Gln Met Gly Cys
 165 170 175
 Glu Ala Cys Gly Trp Phe Ala Gly Ser Asp Met Ile Leu Ala Phe Lys
 180 185 190
 Asp His Asp Gln Val Leu Glu Thr Leu Phe Trp Leu Leu Pro Thr Pro
 195 200 205
 Pro His Thr His Pro Thr Leu Leu His Cys Pro Phe Ser Leu Leu Trp
 210 215 220
 Gln Leu Phe Leu Phe Tyr Asn Leu Ile Leu Glu Phe Leu Gln Thr Ser
 225 230 235 240
 Gly Ser Gln Leu Gly Ala Ile Ser Pro Pro Arg Asp Ile Trp Tyr Phe
 245 250 255
 Ile Trp Arg Tyr Phe Trp Ser Gln Leu Glu Arg Val Leu Ala Ser Ser
 260 265 270
 Gly Arg Pro Gly Arg Leu Leu Thr Ile Leu Gln Ser Thr Glu Gln Pro
 275 280 285
 Tyr Thr Ile Lys Asn Asp Leu Thr Gln Asn Ala Ser Ser Pro Glu Val
 290 295 300
 Lys Lys Pro Cys Thr Arg Leu Ala Pro Ser Asn Arg Asn Ile
 305 310 315
 <210> 207
 <211> 318
 <212> PRT
 <213> Homo sapiens
 <400> 207
 Ile Ser Pro Phe Tyr Tyr Ser Met Leu Val Pro Thr Ser Gly Leu Ser
 1 5 10 15
 Thr Cys Cys Ser Phe Cys Leu Glu Ser Ser Ser Pro Asp Leu Leu Arg
 20 25 30

Phe Pro Leu Ser Ile Arg Val Ser Ala Val Ile His Pro Gln Arg Arg
 35 40 45
 Ser Pro Asp Pro Val Lys Pro Pro Ile Pro Gln Ser Pro Tyr Val Ser
 50 55 60
 Thr Ser Leu Tyr Leu Ile Ser Gln His Leu Leu Ile Ser Leu Thr Leu
 65 70 75 80
 His Tyr Met Cys Cys Tyr Met Phe Val Ile Leu Ser Ser Gly Pro Cys
 85 90 95
 Asn Val Arg Met Ala Gln Tyr Lys Trp Gln Glu Gly Cys Arg Gly Val
 100 105 110
 Asp Lys Ala Glu Ser Gly Trp Gly Ser Trp Arg Asp Gly Gln Gly Pro
 115 120 125
 Glu Leu Arg Arg Trp Tyr Leu Gln Cys Ala Leu Asn Cys Pro Gly Met
 130 135 140
 Ile Ile Ser Ile Ala Ser Phe His Ser Gln Arg Cys Pro Gly Tyr Tyr
 145 150 155 160
 Ser Cys Ser Val Tyr Arg Ala Trp Ala Val Gly Ile Leu Phe Gln Met
 165 170 175
 Gly Cys Glu Ala Cys Gly Trp Phe Ala Gly Ser Asp Met Ile Leu Ala
 180 185 190
 Phe Lys Asp His Asp Gln Val Leu Glu Thr Leu Phe Trp Leu Leu Pro
 195 200 205
 Thr Pro Pro His Thr His Pro Thr Leu Leu His Cys Pro Phe Ser Leu
 210 215 220
 Leu Trp Gln Leu Phe Leu Phe Tyr Asn Leu Ile Leu Glu Phe Leu Gln
 225 230 235 240
 Thr Ser Gly Ser Gln Leu Gly Ala Ile Ser Pro Pro Arg Asp Ile Trp
 245 250 255
 Tyr Phe Ile Trp Arg Tyr Phe Trp Ser Gln Leu Glu Arg Val Leu Ala
 260 265 270
 Ser Ser Gly Arg Pro Gly Arg Leu Leu Thr Ile Leu Gln Ser Thr Glu
 275 280 285
 Gln Pro Tyr Thr Ile Lys Asn Asp Leu Thr Gln Asn Ala Ser Ser Pro
 290 295 300
 Glu Val Lys Lys Pro Cys Thr Arg Leu Ala Pro Ser Asn Arg
 305 310 315
 <210> 208
 <211> 320
 <212> PRT
 <213> Homo sapiens
 <400> 208
 Lys Leu Thr Leu Ala Ala Tyr Thr Leu Ile Gln Cys His Leu Pro Cys
 1 5 10 15
 Val Ile His Asn Ile Leu Tyr Glu Ser Tyr Phe Leu Cys Val Cys Val

```

      20              25              30
Pro Phe Phe Glu Glu Tyr Asp Leu Ser Gln Phe Phe Cys Phe Ser Leu
   35              40              45
Ser Pro Phe Asn Ile Ser Arg Ala Phe Val Val Val Thr Gly Glu Thr
   50              55              60
Thr Tyr Thr Ser Phe Leu Leu Leu Phe Cys Tyr Leu Gln Phe Cys Met
   65              70              75              80
Thr Leu Lys Gln Lys Asn Asn Tyr Leu Thr Ile Ser Phe Val Leu Tyr
      85              90              95
Ser Gly Phe His Ile Gln Ser Pro Phe Ile Met Leu Leu Pro Leu Phe
      100              105              110
Ser Ser Val Phe Glu Asp Gly Lys Ile His Gln His Pro Lys Tyr Gln
      115              120              125
Pro Glu Arg Lys Lys Glu Ser Gly Trp Arg Gln Asp Ser Phe Gln Ser
      130              135              140
Ile Ser Ser Thr Asp His Gly Ala Ala Ala Lys Arg His Ser Lys Arg
      145              150              155              160
Val Glu Arg Gly Lys Thr Ser Ser Leu Arg Cys Leu Pro Phe Lys Phe
      165              170              175
Thr Ile Ile Ile Arg Met Leu Leu Glu Glu Glu Gln Gly Gln Gly His
      180              185              190
Phe Cys Asn Met Thr Gln Lys Asn Ile Asp Leu Lys Phe Asp Thr Tyr
      195              200              205
Glu Leu Ser Lys Cys Arg Glu Lys Leu Pro Pro Cys Cys Thr Cys Met
      210              215              220
Cys Ala Ile His Phe Ile Leu Ile Lys Val Cys Lys His Glu Met Gln
      225              230              235              240
Gly Thr Asp His Leu Phe Met Arg Met Gln His Ser Ser Glu Lys Val
      245              250              255
Tyr Leu Pro Lys Thr Glu Tyr Met Phe Ile Leu Lys Phe Phe Phe Leu
      260              265              270
Phe Leu Phe Leu Ile Val Ile Lys Tyr Lys His Lys Phe Thr Ile Leu
      275              280              285
Ile Ile Phe Lys Tyr Thr Val Gln Tyr Val His Ser His Tyr Cys Ala
      290              295              300
Thr Asn Phe Gln Asn Ser Phe Tyr Leu Ala Lys Met Lys Leu Tyr Thr
      305              310              315              320

<210> 209
<211> 315
<212> PRT
<213> Homo sapiens

<400> 209

Gln Pro Phe Ser Met His Ser Leu Glu Glu Lys Phe Phe Phe Phe Leu
  1              5              10              15

```

```

Asn His Tyr Ser Ala Thr Ser Ile Ser Leu Glu Phe Leu Ser Ser Glu
      20                25                30
Thr Leu Val Gln Val Ser Trp Gly Ile Arg Ile Val Cys Val Trp Ile
      35                40                45
Thr Lys Tyr Tyr Arg Leu Arg Gly Glu Glu Thr Leu Trp Ser Phe Arg
      50                55                60
Pro Thr Leu Ile Cys Leu Asp Leu Phe Cys Phe Lys Glu Ser His Leu
      65                70                75                80
Gln Arg Thr Ala Ser Asp Ser Pro Cys Ser Val Phe Ser Gln Glu Cys
      85                90                95
Ser Leu His Gln Pro Gln Glu Val Leu Gln Lys Glu Val Phe His Val
      100               105               110
Gln Ile Thr Leu Arg Ser Asn Ser His His Ile Asp Phe Glu Tyr Ser
      115               120               125
Cys Arg Lys Thr Cys Leu Tyr Gln Leu Gly Val Ser Pro Asn Leu Phe
      130               135               140
Gly His Gly Asn Ser Phe Ser Lys Lys Thr Cys Phe Ser Ile Ser Phe
      145               150               155               160
His Arg Lys Leu Thr Val Val Cys Val Phe Phe Gln Ile Ile His Ile
      165               170               175
Tyr Ser Lys Leu Lys Leu His Trp Leu Phe Gly Phe Ile Asn Pro Leu
      180               185               190
Thr Ser Val Leu Phe Phe Ser Thr Thr Cys Cys Leu Ala Thr Ser Ala
      195               200               205
Cys Phe Val Trp Leu Asp Phe Leu Val Leu Ser Ile Gly Leu Arg Phe
      210               215               220
Tyr Ile Leu Ser Cys Trp Asn His Pro Thr Ser Pro Ala Trp Leu Phe
      225               230               235               240
Gly Ser Arg Leu Ser His Leu Val His Ser Ser Ala Val Asp Leu Tyr
      245               250               255
Tyr Ser Leu Met Ser Ala Tyr Ser Leu His Leu Tyr Ser Phe Cys Leu
      260               265               270
Glu Met Met Ser Arg Thr Gly Gln Gly Trp Tyr His Ser Ile Asn His
      275               280               285
His Pro Leu Ile Leu Thr Val Asn Leu Pro Asn Lys Ile Phe Gln Lys
      290               295               300
Arg Val Ser Asn Asn Pro Cys Leu Pro Leu Trp
      305               310               315
<210> 210
<211> 327
<212> PRT
<213> Homo sapiens
<400> 210

```

00100US1.ST25.txt

Arg Val Pro Ser Leu Pro Gly Pro Pro Ala Thr Val Cys Pro Val Pro
 1 5 10 15
 Ala Ser Glu Phe Ser Gln His Arg Lys Arg Gly Leu Arg Thr Ile Gln
 20 25 30
 Pro Val His Ser Arg Glu Ser Leu Ser Val Ser Gln Arg Leu Met Gly
 35 40 45
 Cys Leu Trp Cys Arg Val Thr Pro Ala Ser Pro Cys Gly Gly Cys Ala
 50 55 60
 Gly Gly Ala Arg Pro Pro Pro Cys Ala Leu Ser Leu Ala Gln Gly Gln
 65 70 75 80
 His Thr Ala His Pro Leu Phe Phe Leu Pro Phe Pro Leu Ala Gln Pro
 85 90 95
 Leu Val Val Gly Val Thr Arg Gly Ala Glu Arg Ser Trp Arg Ser Arg
 100 105 110
 Ala Cys Pro Gly Pro Val Arg Glu Gly Gly Arg Gly Gln Gln His Pro
 115 120 125
 Trp Arg Arg Glu Asp Tyr Ile Ile Phe Ile Tyr His Met Pro Lys Ile
 130 135 140
 Ala Leu Leu Arg Ala Phe Asp Ile His Pro Lys Ile Phe Lys His Tyr
 145 150 155 160
 Gly Ser Met Ser Gly Cys Ile Ser Asn Met Lys Val Glu Ala Ser Cys
 165 170 175
 Pro Ala Pro Ser Pro Leu Trp Glu Asn Phe Val His Val Leu Ser Gln
 180 185 190
 Leu Phe Gly Lys Gly Gly Pro Ser His Cys Pro Leu Gly Gly Phe Asp
 195 200 205
 Val His Cys Val Gly Arg Ser Leu Pro Ser Ile Leu Phe Tyr Phe Cys
 210 215 220
 Arg Ile Ser Ala Gln Ser Gly Ser Ala Trp Gln Phe Ser Cys Ser Ala
 225 230 235 240
 Arg Glu Val Leu Cys Pro Gly Leu Cys Asp Phe Arg Arg Arg Glu Gly
 245 250 255
 Ser Cys Arg Pro Tyr Leu Gln Trp Leu Pro Pro Gly Ile Pro Val Cys
 260 265 270
 Ser Leu Cys Thr Val Gln Arg Arg Ser Gly Ser Trp Trp Arg Asp Gly
 275 280 285
 Asp Pro Arg Thr Met Ala Ser Thr Lys Ala Gly Gly Ala Cys Asp Arg
 290 295 300
 Arg Trp Thr Met Thr Gln Val Pro Ala Arg Tyr Gly Ser Gly Leu Cys
 305 310 315 320
 Arg Glu Gly Ala His Pro Gly
 325

<210> 211

<211> 327

<212> PRT

<213> Homo sapiens

<400> 211

Cys Gln Phe Gly Ala Leu Gly Tyr Ala Gly Pro Val Arg Arg Val Pro
 1 5 10 15
 Ser Leu Pro Gly Pro Pro Ala Thr Val Cys Pro Val Pro Ala Ser Glu
 20 25 30
 Phe Ser Gln His Arg Lys Arg Gly Leu Arg Thr Ile Gln Pro Val His
 35 40 45
 Ser Arg Glu Ser Leu Ser Val Ser Gln Arg Leu Met Gly Cys Leu Trp
 50 55 60
 Cys Arg Val Thr Pro Ala Ser Pro Cys Gly Gly Cys Ala Gly Gly Ala
 65 70 75 80
 Arg Pro Pro Pro Cys Ala Leu Ser Leu Ala Gln Gly Gln His Thr Ala
 85 90 95
 His Pro Leu Phe Phe Leu Pro Phe Pro Leu Ala Gln Pro Leu Val Val
 100 105 110
 Gly Val Thr Arg Gly Ala Glu Arg Ser Trp Arg Ser Arg Ala Cys Pro
 115 120 125
 Gly Pro Val Arg Glu Gly Gly Arg Gly Gln Gln His Pro Trp Arg Arg
 130 135 140
 Glu Asp Tyr Ile Ile Phe Ile Tyr His Met Pro Lys Ile Ala Leu Leu
 145 150 155 160
 Arg Ala Phe Asp Ile His Pro Lys Ile Phe Lys His Tyr Gly Ser Met
 165 170 175
 Ser Gly Cys Ile Ser Asn Met Lys Val Glu Ala Ser Cys Pro Ala Pro
 180 185 190
 Ser Pro Leu Trp Glu Asn Phe Val His Val Leu Ser Gln Leu Phe Gly
 195 200 205
 Lys Gly Gly Pro Ser His Cys Pro Leu Gly Gly Phe Asp Val His Cys
 210 215 220
 Val Gly Arg Ser Leu Pro Ser Ile Leu Phe Tyr Phe Cys Arg Ile Ser
 225 230 235 240
 Ala Gln Ser Gly Ser Ala Trp Gln Phe Ser Cys Ser Ala Arg Glu Val
 245 250 255
 Leu Cys Pro Gly Leu Cys Asp Phe Arg Arg Arg Glu Gly Ser Cys Arg
 260 265 270
 Pro Tyr Leu Gln Trp Leu Pro Pro Gly Ile Pro Val Cys Ser Leu Cys
 275 280 285
 Thr Val Gln Arg Arg Ser Gly Ser Trp Trp Arg Asp Gly Asp Pro Arg
 290 295 300
 Thr Met Ala Ser Thr Lys Ala Gly Gly Ala Cys Asp Arg Arg Trp Thr
 305 310 315 320

Met Thr Gln Val Pro Ala Arg
325

<210> 212
<211> 310
<212> PRT
<213> Homo sapiens

<400> 212

His Glu Leu Ser Leu Pro Cys Gly Gln Ser Pro Val Ile Lys Lys Glu
1 5 10 15
His Thr Pro Ser Leu Thr Glu Thr Ser Leu Asn Lys Lys Asn Ala His
20 25 30
Gln Arg Asn Ile Glu Phe Lys Tyr Leu Glu Gln Met Ser Glu Ile Ser
35 40 45
His Lys Asn Leu Asn Arg Asn Trp Pro Ser Lys Ser Trp Glu Phe Gly
50 55 60
Asp Ala Asn Phe Ile Leu Ser Ile Leu Glu Gln Ser Lys Ile Asn Thr
65 70 75 80
Thr His Phe Ser Leu Arg Lys Ser Ala Tyr Leu Phe Asp Val Pro Ser
85 90 95
Gly Leu Glu Ile Pro Asn Lys Thr Leu Thr Leu Phe Ile Leu His His
100 105 110
Asn Ile Thr Val Asn Lys Asn Asn Leu Asn Leu Cys Ser Asn Phe Pro
115 120 125
Leu Trp Thr Cln Arg Lys Thr Gln Gln Lys Met Val Glu Cys Val Leu
130 135 140
Asn Lys Val His Tyr Leu Tyr Gln Lys Tyr Ala Val Ile Ser Thr Ser
145 150 155 160
Thr Pro Lys Cys Leu Phe Asn Phe Ala Met Met Tyr Lys Ile Leu Val
165 170 175
Thr Cys Gln Ser Ile Asn Phe Ser Gln Leu Ile Leu Lys Ala Glu Asp
180 185 190
Ser His His Phe Val Cys Phe Ser Val Asn Met Ile Val Phe Val Arg
195 200 205
Lys His Ile Tyr Pro Glu Ser Tyr Gly Pro Met Phe Leu Thr Phe Cys
210 215 220
Pro Arg Ser Val Cys Val Ala Ser Cys Val Cys Met Asp Val Asp Asn
225 230 235 240
Lys Leu Asp Ser Tyr Gln Glu Ser Lys Ile Lys Leu Leu Ser Cys Lys
245 250 255
Lys Phe Val Lys Tyr Val Asp Leu Ser Cys Leu Lys Leu Arg His Pro
260 265 270
Gly His Ser Leu Trp Arg Glu Asn Ser Pro Pro Leu His Val Asn Leu
275 280 285
Trp Val Gly Thr Gly Val Gln Gly Phe Arg Val Gly Leu Leu Leu Pro

```

290                                295                                300
Gly Met Ile Gln Lys Ile
305                                310

<210> 213
<211> 314
<212> PRT
<213> Homo sapiens

<400> 213

Lys Ala Asp Lys Ile Thr Phe Leu Glu Ser Ser Ile Tyr Ser Leu Ile
1                                5                                10                                15

Val Phe Leu Tyr Ile Thr Leu Ser Gln Leu Trp Ser Lys Glu His Ser
20                                25                                30

Thr Glu Glu Gly Gly Ser Leu Ile Phe Pro His Leu Val Thr Pro Met
35                                40                                45

Leu Glu Leu His Glu Ile Asp Asn Tyr Tyr Tyr Ile Val Ile Ser Phe
50                                55                                60

His Val Leu Ser Phe Ser Ser Ser Leu Leu Leu Phe Phe Lys Ser Arg
65                                70                                75                                80

Lys Gln Asn Gly His Gln Leu His Glu His Cys Ser Lys Lys Ile Thr
85                                90                                95

Val Arg Pro Asn Leu Asn Cys Trp Leu Pro Gly Arg Ala Ile Leu Ile
100                               105                               110

Ala Tyr Lys Asp Gln Ile Lys Tyr Gln Ser Gln Val Val Arg Cys Pro
115                               120                               125

Cys Thr Glu His Asn Ile Val Tyr Lys Asp Val Glu Leu Leu Leu Leu
130                               135                               140

Leu Trp Phe Tyr Thr Val Ala His Asp Lys Glu Leu Ile Phe Tyr Leu
145                               150                               155                               160

Asn Glu Val Leu Phe Tyr Ile Thr Tyr Phe Met Phe Phe Pro Gln Glu
165                               170                               175

Ser Phe Asn Leu Leu Arg Leu Arg Asp Ser Phe Lys Cys Phe Asp Pro
180                               185                               190

His Thr Leu Phe Ala Gly Cys Arg Arg Met Cys Met Ile Leu Thr Phe
195                               200                               205

Thr Ala Asn Leu Phe Phe Trp Met Gly Tyr Cys Asn Phe Leu Leu Glu
210                               215                               220

Asp His Thr Ser Ser Ser Met Phe Arg Arg Gly Leu His Leu Trp Phe
225                               230                               235                               240

His Gly Trp Thr Leu Asp Pro Leu Trp Leu Ser Lys Ile Leu His Gln
245                               250                               255

Cys Asn Ser Phe Val Asn Gly Tyr Met Ile Gln Ala Gly Pro Ile Arg
260                               265                               270

Ala Leu Pro Arg Val Leu Leu Glu Leu Leu Gly Arg Glu Ile Leu Ser
275                               280                               285

```

Ser Thr Lys Val Ile Phe Trp Arg Asn His Asp Gln Glu Ser Gln Cys
 290 295 300
 Met Glu Asn Lys Ser Arg Glu Lys Lys Lys
 305 310
 <210> 214
 <211> 320
 <212> PRT
 <213> Homo sapiens
 <400> 214
 Met His His Val Phe Ile Leu Trp Pro Leu Ile Asp Ser Trp Asp Val
 1 5 10 15
 Lys Glu Leu Ile Leu Tyr Thr Tyr Ala Asn Leu Lys Pro Ser Ile Ile
 20 25 30
 Ser Leu Thr Ser Pro Val Ser Ser Leu Cys Leu Cys Tyr Gln Gln Val
 35 40 45
 Asn Phe Ser Val Leu Pro His His Lys Pro Gln Leu Pro Leu His Met
 50 55 60
 Phe Pro Lys Leu Val Ala Asn Ser Val Phe Pro Gly Glu Cys Ile Lys
 65 70 75 80
 Tyr Pro Gly Ile His Cys Tyr Thr Val Ser Asn Gly Ser Ser Phe Ser
 85 90 95
 Leu Leu Trp Arg Arg Thr Pro Glu Glu Ser Thr Ser Pro Gly Pro Ala
 100 105 110
 Ala Ser Cys Met Gly Asn Leu Leu Leu Leu Leu Gly Phe Thr Leu
 115 120 125
 His Ile Leu Ser Leu Arg Lys His Thr Lys Ser Phe His Val Phe Val
 130 135 140
 Pro Val Pro Met Pro Leu Leu Pro Gly Ile Pro Phe Phe Tyr Ser Tyr
 145 150 155 160
 Ser Leu Asn Lys Leu Phe Tyr Ser Phe Ser Ser Gly Pro Leu Pro Leu
 165 170 175
 Ile Gln Leu Arg Asn Asn Tyr Cys Leu Ser Pro Ser Lys Leu Ile Phe
 180 185 190
 Cys Leu Leu Phe Ser His His Thr Leu Pro Phe Thr Ser Val Ala Tyr
 195 200 205
 His Phe Phe Cys Tyr Leu Thr Asn Ala Ser Val Phe Ile His Ser Pro
 210 215 220
 Pro Arg Leu Tyr Ser Ser Trp Val Gln Ser Ile Ser His Ser Phe Leu
 225 230 235 240
 Cys Tyr Leu Cys Leu Ser Gln Cys Trp Leu Gln Ser Arg Tyr Phe Arg
 245 250 255
 Asp Ala Ile Ile Arg Val Arg Val Val Arg Ile Gly Glu Asn Glu Asp
 260 265 270

Ser Met Val Leu Arg Cys His Ala Ser Cys Lys Glu Asn Met Lys Gly
 275 280 285
 His Phe Phe Phe Leu Gln Leu His Gly Leu Leu Gln Ser Leu Cys Leu
 290 295 300
 Leu Gly Leu Glu Leu Pro Ala Ile Ser Val Phe Val Arg Leu Leu Ile
 305 310 315 320
 <210> 215
 <211> 317
 <212> PRT
 <213> Homo sapiens
 <400> 215
 Pro Val Asn Ala Lys Asp Ile Leu Phe Gly Leu Glu Ile Lys Leu Leu
 1 5 10 15
 Met Pro Ile Trp Pro Tyr Ala Leu Arg Thr Leu Leu His Asn Lys Ile
 20 25 30
 Ala Val Arg Val Thr Lys Trp Lys Met Asn Asn Met Tyr Arg Glu Arg
 35 40 45
 Ile Gln Lys Arg Asn Leu Tyr Phe Ile Phe Ser Lys Leu Pro Gln Ile
 50 55 60
 Cys Leu Arg Lys Leu Tyr Asp Leu Val Asn Arg Ile Leu Lys Thr Leu
 65 70 75 80
 Ile Tyr Lys Ser Gln Val Trp Ala Leu Val Thr Ser Leu Asn Asp Trp
 85 90 95
 Leu Ala Asp Asn Leu Ser Gly Ser Ser Trp Leu Glu Ile Glu Asn Thr
 100 105 110
 Ser Leu Pro Phe Tyr Asn Ser Pro Gln Leu Phe Gln His Thr Gln Cys
 115 120 125
 Asp Lys Lys Pro Ser Gln Ala His Phe Ser Asn Asn Glu Phe Val Gly
 130 135 140
 Ser Phe Lys Cys Gln Gly Gln Gln Val Arg Ala Gly Ser Glu Ala Asp
 145 150 155 160
 Ile Phe Gly Glu His Gly Leu Ala Phe Ser Phe Leu Gly Thr Phe Val
 165 170 175
 Leu Trp Met Glu Ser Ile Leu Gly Gln Ala Glu Val Leu Leu Ser Trp
 180 185 190
 Trp Gln Asp Gly Tyr Ala Arg Gln Pro Ser Cys Leu Gln Arg Ala Cys
 195 200 205
 Leu Val Arg Ser Phe Gly Ile Ser Ser Asp Leu Met Asn Leu Gly Leu
 210 215 220
 Met Phe Ile Pro Gly Tyr Ile Ser Phe Ala Gln Val Asn Gly Tyr Val
 225 230 235 240
 Asp Cys His Thr Trp Val Ser Val Thr Thr Pro Gly Phe Ser Asp Gly
 245 250 255
 Val Ser Pro Lys Gly Pro Thr Arg Val Glu Glu Ser Gly Ser Trp Lys

260 265 270
 Glu Ser Gln Gly Lys Gly Lys Gly Thr Asn Ala Arg Trp Ala Val Asn
 275 280 285
 Gly Ser Cys Pro Asn Phe Met Pro Glu Pro Leu Lys Gly Ile Phe Thr
 290 295 300
 Leu Thr Val Gly Ile Asn Ile Gly Arg Gly Asp Ala Trp
 305 310 315
 <210> 216
 <211> 319
 <212> PRT
 <213> Homo sapiens
 <400> 216
 Arg Lys Lys Asp Asp Ser Ile His Val Arg Arg Asn Ser Ala Arg Met
 1 5 10 15
 Gln Lys His Lys Tyr Glu Lys Arg Val Tyr Cys Phe His Asn Lys Thr
 20 25 30
 Lys Thr Arg Lys Glu Ile Ala Cys Gly Lys Glu Lys Gln Ser Lys Lys
 35 40 45
 Arg Lys Thr Asn Leu His Val Ala Asn Leu Phe Val Thr Phe Gln Ile
 50 55 60
 His Met Ser Cys Ala Met Ile Thr Arg Gly Phe Pro Asp Lys Phe Cys
 65 70 75 80
 Phe Ser Ile Ile Phe Leu Gln Leu Tyr Lys His Gly Phe Tyr Ser Asp
 85 90 95
 Asn Leu Ser Phe Asp Ile Phe Phe Ile Asp Tyr Gln Arg Ile Leu Glu
 100 105 110
 Thr Asn Gln Ala Gln Tyr Phe Asn Phe Gln Phe Ser Leu Pro Val Ile
 115 120 125
 Leu Leu Pro His Thr Ala Ser Thr Pro Ser Trp Tyr Gln Leu Lys Lys
 130 135 140
 Tyr Tyr Val Arg Met Thr Ser Val Thr Leu Val Leu Phe Ile Leu Asn
 145 150 155 160
 His Ser Glu Pro Tyr His Cys Val Leu Asn Leu His Leu Thr Asp Pro
 165 170 175
 Tyr Leu Cys Ser Ser Ser Ser Ala Leu Asp Leu Cys Phe Gln Ala Leu
 180 185 190
 Arg Phe Tyr Asn Val Ile Asn Pro Leu Ser Leu Ile Phe Ser Ser Pro
 195 200 205
 Leu Thr Cys Met Cys Val Glu Ser Val Tyr Met Leu Glu Asn Tyr Thr
 210 215 220
 Thr Phe Thr Arg Phe Ile Leu Leu Val Tyr Leu Thr Leu Thr His Phe
 225 230 235 240
 Tyr Ser Leu Gly His Tyr Leu Cys Met Ala Tyr Ala Glu Val Gly Ser
 245 250 255

Gly His Tyr Lys His Gln Glu Thr Ile Ser Ile Thr Pro Cys Ile His
 260 265 270
 Val His Val Val Leu Lys Tyr Asn Val Lys Tyr Arg Glu Val Thr Leu
 275 280 285
 Gly Leu Asn Ser Gly Val Ser Ala Arg Leu Gly Leu Ile Thr Thr Leu
 290 295 300
 Leu Leu Ala Asn Tyr Ala Ser Leu Asn Pro Cys Ala Ser Lys Leu
 305 310 315
 <210> 217
 <211> 313
 <212> PRT
 <213> Homo sapiens
 <400> 217
 Trp Pro Gln Ile Ser Phe Pro Pro Tyr Val Pro Leu Val Ser Thr Asn
 1 5 10 15
 Leu Phe Leu Pro Tyr Trp Ser Gly Gln Cys Pro Pro Asp Thr Ala Val
 20 25 30
 Leu Pro Thr Gly Leu Leu Ser Ser Phe Leu Ser Val Ile Ile Leu Ala
 35 40 45
 Cys Leu Trp Leu Lys Ala His Leu Cys Gly Pro Gln Arg Asn Tyr Leu
 50 55 60
 Pro Leu His Ser Ser Ser Trp His Leu Ser Leu Met Asp Ser Tyr Tyr
 65 70 75 80
 Pro Leu Leu Leu Leu Cys Ala Phe Met His Ile Ile Leu Ala Pro Pro
 85 90 95
 Asp Gln Leu Ser Leu Gly Gln Gly Phe Asp Leu Val Pro Ile Tyr Ser
 100 105 110
 Ser Pro Arg Ala Ser Leu Leu His Thr Val Gly Trp Gly Lys Ile Phe
 115 120 125
 Ala Tyr Ala Asp Asp Leu Arg Lys Ile Ile Leu Gln Thr Gly Glu Val
 130 135 140
 Lys Ile Ser Leu Ser Cys Ser Ile Trp Asn Glu Leu Val Ala Gly Asn
 145 150 155 160
 Gln Leu Glu Val Ser Ser Glu Gly Asn Thr Trp Thr Tyr Pro Leu Leu
 165 170 175
 Gln Val Ser Tyr Leu Tyr Lys Asp Cys Val Pro Val Thr Asn Leu Phe
 180 185 190
 Leu Asn His Trp Cys Cys Tyr Leu Gln Glu Gly Leu Gly Gln Ile Cys
 195 200 205
 Glu Glu Thr Ser Met Tyr Thr His Pro Tyr His Leu Lys Asn Lys Phe
 210 215 220
 Val Cys Val Pro Leu Met Lys Tyr Glu Glu Arg Ser His Ser Phe Gln
 225 230 235 240

Ser Thr Gln Ala Leu Cys Leu Gly Leu Leu Ala Thr His Ala Lys Ile
 245 250 255
 Leu Tyr Gln His Phe Val Lys Pro Thr Ile Leu Thr Val Pro Ala Leu
 260 265 270
 Gln Pro Val Ile Asp Ser Asn Phe Asn Ser Pro Leu Val Ala Ile Ser
 275 280 285
 Asp Ala Gln Cys Leu Cys Leu Leu Pro Leu Cys Ile Pro Ser Pro Ala
 290 295 300
 Leu Asn Ser Ala Gly Cys Ile Gln Glu
 305 310
 <210> 218
 <211> 313
 <212> PRT
 <213> Homo sapiens
 <400> 218
 Thr Cys Ser Ser Thr Asp Ser Lys Val Ile Leu Lys Ser Gln Leu Asn
 1 5 10 15
 Val Ile Thr Arg Cys Arg Asp Ser Arg Tyr Val Tyr Ser Glu Arg Asn
 20 25 30
 Cys Ser Pro Ser Val Ile Leu Ile Lys Val Lys Ser Phe Gln Asn Ala
 35 40 45
 Met Val Gly Gln Thr Asn Arg His Ser His Ser Lys Arg Glu Lys Glu
 50 55 60
 Gly Ile Leu Gln Gln Gln Gln Ser Lys Arg Ile Leu Arg Leu Gln Asn
 65 70 75 80
 Asn Leu Leu Leu Met Pro His Leu Pro Ile Phe Gln Ala His Leu Gly
 85 90 95
 Arg Arg Trp Ala Pro Lys Ala Leu Gly Val Pro Val Pro Ala His Met
 100 105 110
 Thr Ala Leu Thr Tyr Ser His Met Pro Gly Trp Lys Cys Pro Leu Val
 115 120 125
 Ala Leu Leu Val Tyr Gly Gln Arg Val Gly Leu Leu Leu Cys Gln
 130 135 140
 Ala Gln Pro Trp Arg Leu Phe Val Val Ala Pro Pro Leu Cys Gln Phe
 145 150 155 160
 Phe Ala Ala Ser Arg Leu Ser Arg Ala Ser Phe Glu Ile Cys Val Glu
 165 170 175
 Ser Ala Phe Pro Leu Trp Tyr Cys Thr Val Cys Pro Gly Gly Asp Asp
 180 185 190
 Thr Arg Thr Leu Pro Thr Phe Ile Ile Cys Ala Leu Gln Lys Gly Gly
 195 200 205
 His Trp Ser Pro His His Thr Trp Thr Leu Trp Ser His Ala Trp Asn
 210 215 220
 Asp Ala Val Leu Cys Gln Lys Ala Gly Ser Arg Asp Glu Val Ala Gly

Phe Thr Ile Val Gly Asn Ser Val Val Leu Phe Ser Thr Trp Arg Arg
 225 230 235 240
 Lys Lys Lys Ser Arg Met Thr Phe Phe Val Thr Gln Leu Ala Ile Thr
 245 250 255
 Gly Lys Leu Cys Lys Glu Ala Gly Ser Tyr Met Ser Pro Tyr Gly Phe
 260 265 270
 Leu Leu Leu Met Asn Phe Ile Lys Lys Lys Met Arg Ile Gly Gln
 275 280 285
 Phe Gly Asn Asn Phe Lys Asn Ile Lys Pro Ile Phe Glu Tyr Phe Leu
 290 295 300
 Trp His Thr His Ile Met Pro Leu Arg Phe His Tyr Lys Ser
 305 310 315
 <210> 220
 <211> 320
 <212> PRT
 <213> Homo sapiens
 <400> 220
 Ile Ile Pro Ser Val Ile Phe Phe Tyr Cys Arg His Cys Lys Ser Leu
 1 5 10 15
 Asn Leu Asp Lys Ser Tyr Ser Gly Gln Asn Lys Asn Phe Thr Val Ile
 20 25 30
 Asn Val Cys Ser Cys Thr Cys Glu Val Lys Ser Phe Ser Leu Leu Ser
 35 40 45
 Asn Ser Tyr Val Pro Asn Ile Phe Ser Lys Phe Leu Lys Thr Tyr Asn
 50 55 60
 Gly Glu Lys Asn Asn Pro Phe Ser Ser Pro Ala Ser Leu Met Lys Asn
 65 70 75 80
 Ser His Phe Ser Leu Phe Leu Leu Phe Leu Leu Val Val Phe His Ile
 85 90 95
 Ser Cys Leu Ser Ala Val Ser Cys Phe Met Gln Phe Arg Pro Tyr Leu
 100 105 110
 Leu Thr Ser Leu Ser Phe Gln Tyr Lys Asp Ser Cys Ile Phe Ser Phe
 115 120 125
 Asn Phe Thr Phe Leu Asn Ser Pro Phe Pro Phe Cys Asp Pro Gly Ile
 130 135 140
 Ser Gly Val Leu Phe Phe Phe Ile Leu Pro Asp Phe Ile Tyr Ile Cys
 145 150 155 160
 Val Tyr Ser Phe Leu Leu Phe Phe Lys Leu Lys Thr Cys Leu Ser Ser
 165 170 175
 Lys Ser Gly Ser Phe Phe Phe Ser Trp Arg Pro Leu Ser Gln Asn Pro
 180 185 190
 Leu Ser Phe Cys Phe Asn Glu Asp Tyr Met Leu Ser Leu Trp Leu Pro
 195 200 205

Ser Cys His Trp Ser Ser Ser Leu Cys Cys Tyr Pro Gly Leu Lys Leu
 210 215 220
 Leu Phe Leu Asp Pro Ile Leu Ser Leu Ser Trp Phe Ile Thr Leu Phe
 225 230 235 240
 Cys Trp Gly Thr Ser Ser Cys Met Trp Asn Val Met Ser Ala Ser Leu
 245 250 255
 Cys Phe Lys Met Tyr Ile Phe Cys Pro Leu Phe Asp Leu Ala Glu Asn
 260 265 270
 Arg Ile Leu Asp Cys Lys Ile Gln Lys Leu Leu Gln Arg Leu His His
 275 280 285
 Arg Gln Lys Asn Leu Cys Thr His Phe Pro Pro Thr Ser Ser Pro Pro
 290 295 300
 Ala Ala Arg Ser Asn His Glu Ser Phe Cys Gln Asn Arg Phe Ala Tyr
 305 310 315 320
 <210> 221
 <211> 318
 <212> PRT
 <213> Homo sapiens
 <400> 221
 Cys Ile Lys Val Phe Ile Leu Lys Gly Lys Ala Thr Met Ile Ala Gln
 1 5 10 15
 Leu Trp Tyr Ile Ile Ile Ser His Ile Ile Phe Leu Leu Leu Glu Lys
 20 25 30
 Gly Ile Tyr Asp Phe Ser Arg Met His Thr Gln Lys Pro Leu Cys Ile
 35 40 45
 Ile Leu Cys Glu Ser Lys Leu Cys Thr Tyr Phe Glu Val Ile Cys Ile
 50 55 60
 Leu Cys Arg Arg Lys Glu Asn Asn Leu Leu Tyr Phe Val Cys Gly Ile
 65 70 75 80
 Gly Asn Val Phe Leu Thr Lys Pro Lys Asn Ile Ser His Ser Lys Gly
 85 90 95
 Lys Met Gly Leu Asn Glu Lys Met Val Asp Leu Lys Tyr Gly Gly Arg
 100 105 110
 Phe Phe Trp Gly Thr Leu Asp Leu Ile Met Phe Phe Ser Ile Pro Phe
 115 120 125
 Leu Gln Met Phe Ile Ile Leu Leu Leu Phe Ile Tyr Ala Ala Ile Ile
 130 135 140
 Tyr Val Cys Ser Cys Phe Ser Cys Ser Gln Thr Leu Tyr Asn Val Ile
 145 150 155 160
 Ile Gln His Glu Ser Phe Ser Ile Leu Leu Phe Leu Val Asn Ile Ile
 165 170 175
 Ile Trp Gly Tyr Trp Cys Thr His Cys Gln Phe Ile His Phe Asn Tyr
 180 185 190
 Ser Thr Gly Phe Trp Ser Met Asn Ile Ser Tyr Phe Ile Tyr Leu Tyr

```

195                200                205
Pro Ile Asp Val Tyr Leu Val Pro Ile Phe Ala Val Lys Asn Asn Ala
210                215                220
Ala Ile Lys Pro Ser Gly Ile Cys Phe Ser Lys Cys Ile Pro Arg Ser
225                230                235                240
His Arg Phe Ser Gly Cys His Ser Leu Lys Leu Leu Gly Lys Thr Val
245                250                255
Arg Ile Leu Gly Asn Leu Leu Asn Leu Thr Trp Leu Asn Phe Leu Ala
260                265                270
Gln Met Arg Val Val Leu Asp Leu Ile Lys Asn Met Val Ile Phe Cys
275                280                285
Glu Thr Leu Ala Asn Tyr Asp Asn Lys Trp Ser Leu Gly Ile Ser Val
290                295                300
Ile Thr Ala Ile Lys Arg Gly Leu Lys Tyr Pro Lys Glu Lys
305                310                315
<210> 222
<211> 317
<212> PRT
<213> Homo sapiens
<400> 222
Asn Tyr Leu Ser Asp Cys His Ser Phe Met Glu Leu Ser Val Asn Lys
1          5          10          15
Val Leu Leu Tyr Val Asn Met Arg Leu Ile Phe Phe Leu Ser Leu Leu
20          25          30
Phe Gly Leu Tyr Phe Phe Gln Val Arg Ala Ile His Gly Ser Ala Ser
35          40          45
Thr Asp Gln His Leu Leu Ser Tyr Phe Ala Ile Trp Leu Pro Gly Leu
50          55          60
Arg Glu Cys Phe Phe Asn Leu Tyr Trp Trp His Cys Trp Leu Leu Ile
65          70          75          80
Leu Leu Phe Val Leu Ala Arg Leu Leu Phe Lys Arg Arg Val Ile Asn
85          90          95
Ser Val Leu Arg Ala Glu Val Lys Tyr Arg Met Glu Leu Glu Glu Asn
100         105         110
Glu Ala Ser Ile Ser Val Lys Lys Ser Phe Ile Lys Ala Val Gly Asp
115         120         125
Arg Glu Leu Gly Val Thr Ile Leu Val Pro Ile Val Met Val His Pro
130         135         140
Gly Lys Ile Gln Gly Lys Arg Glu Ser Leu Trp Lys Ser Phe Gly Cys
145         150         155         160
Val Leu Ser Cys Phe Arg Lys Leu Ala Asn Phe Tyr Thr Ser Val Phe
165         170         175
Arg Leu Ser Cys Leu Asp Thr His Pro Thr Gln Ser Ala Gln Gln Tyr
180         185         190

```

Phe Leu Cys Ser Ser Leu Ser Pro Gly Ile Arg Met Ala Pro Leu Gly
 195 200 205
 Glu Leu Leu Ser His Met Ile Lys Asp Leu His Tyr Phe Leu Ser Lys
 210 215 220
 Ser Arg Arg Lys Val Gly Glu Leu Ala Trp His Leu Ala Gly Thr Tyr
 225 230 235 240
 Asn Thr Ala Ser Thr Trp His Leu Leu Asp Arg Leu Pro Leu Pro Thr
 245 250 255
 Val Val Thr Thr Ser Met Gly Gly Gly Trp Cys Cys Thr Val Pro Met
 260 265 270
 Gly Trp Cys Ala Cys Ser Pro Met Pro Pro Ala Leu Pro Gln Cys Cys
 275 280 285
 Leu Leu Gln Ser His Leu Phe Arg Trp Ser Ile Leu Ile Glu Lys Val
 290 295 300
 Leu Gly Thr Ile Cys Leu Lys Cys Ser Pro Ala Asn Val
 305 310 315
 <210> 223
 <211> 314
 <212> PRT
 <213> Homo sapiens
 <400> 223
 Leu Cys Tyr Cys Val Ile Ile Ile Ile Val Pro Phe Pro Ser Ile Pro
 1 5 10 15
 Gln Thr His Thr Tyr Val Glu Ile Leu Arg Gly Asp Asp Val Leu Phe
 20 25 30
 Thr Ser Ala Cys Leu Met Leu Ser Pro Val Leu Gly Thr Asn Ala Ile
 35 40 45
 Val Phe Leu Glu His Glu Ile His Gln Lys His Glu Trp Ile Trp Trp
 50 55 60
 Gly His Lys Arg Leu Thr Pro Gly Ser Arg Asn Leu Gly Gly Glu Thr
 65 70 75 80
 Ser Gly Leu Glu Gly Ala Glu Asp His Cys Val Arg Ser Thr Trp Phe
 85 90 95
 Trp Leu Ala Gly Leu Ala Arg Met Gln Arg Ser Phe Trp Val Leu Leu
 100 105 110
 Lys Phe Lys Thr Thr Ile Ile Ile Asn Ile His Leu Val Leu Thr Met
 115 120 125
 Cys Gln Ser Leu Ile Ala Phe Tyr Val Phe Ser His Ser Ser Lys Phe
 130 135 140
 Gly Leu Asp Ile Phe Pro Val Tyr Thr Ile His Met Arg Lys Arg Val
 145 150 155 160
 Glu Gln Gly Gly Ala Glu Thr Cys Pro Arg Ile His Ser Lys Asn Gly
 165 170 175

Asn Trp Asp Trp Ser Pro Arg Asp Ser Cys Phe Leu Asp Phe Val Phe
 180 185 190
 Leu Ile Ser Leu Pro Leu Arg Leu Phe Ile Asp Ile Phe Thr Phe Tyr
 195 200 205
 Phe Glu Ile Ile Val Asp Ser Gln Glu Val Thr Arg Glu Arg Ser Cys
 210 215 220
 Val Leu Phe Thr Gln Ile Ser Pro Met Leu Arg Phe Tyr Ile Thr Val
 225 230 235 240
 Ile Gln Tyr Glu Asn Gln Glu Thr Asp Ile Gly Ser Ile Tyr Val Tyr
 245 250 255
 Thr Ser Met Pro Phe His His Val Met Pro Pro Ser Pro Ser Cys Arg
 260 265 270
 Thr Val Pro Ser Pro Arg Arg Ser Ala Thr Cys Cys Ser Phe Lys Val
 275 280 285
 Ile Pro Ala Leu Phe Pro Val Pro Thr His Cys His Tyr Ala Pro Leu
 290 295 300
 Val Thr Thr Asn Leu Phe Ser His Leu Tyr
 305 310
 <210> 224
 <211> 321
 <212> PRT
 <213> Homo sapiens
 <400> 224
 Lys Pro Ser Ser Gly Cys Gly Gly Trp Met Trp Asp Trp Met Gly Thr
 1 5 10 15
 Gln Lys Asn Ile Lys Thr Met Ala Thr Val Ile Ile Ile Val Ile Asn
 20 25 30
 Ser Gln Asp Asn Asn His Leu Ala Thr Val Ala Met Tyr Leu Lys Asp
 35 40 45
 Tyr Ser Leu Gly Val Phe Phe Leu Met Ser Met Glu Gln Asp Asp Trp
 50 55 60
 Ala Phe Glu Asp Ile Lys Glu Thr Lys Gly Pro Asp Cys Asn Gln Arg
 65 70 75 80
 Phe His Ser His Arg Pro Gly Phe Thr Trp Gln His Thr Phe Trp Thr
 85 90 95
 Phe Phe Phe Phe Ser Gly Lys Glu Thr Gly Ser Val Glu Asn Gly Arg
 100 105 110
 Met Arg Thr Asn Cys Arg Ala Leu Pro His Ser Trp Thr Leu Ser His
 115 120 125
 Ser Ser Arg Trp Gly Pro Pro Ala His Cys Trp Leu Cys Pro Pro Gln
 130 135 140
 Phe Leu Arg Ile His Thr Asp Phe Ala Lys Ile Leu Arg Tyr Val Gly
 145 150 155 160
 His Glu Leu Trp Val Cys Ala His Leu Val Pro Ser Leu Tyr Ser Thr

165 170 175
 Leu His Ser Ser Gly Val Phe Leu Thr Ala Gly Ala Thr Phe His Leu
 180 185 190
 His His Tyr Tyr Ile Lys Trp Ala Ser Ile Phe Pro Ser Glu Phe Gln
 195 200 205
 Pro Leu Ser Gly Asn Leu Thr Phe Phe Leu Val Ser Phe Ala Leu Arg
 210 215 220
 Phe Cys Pro Phe Tyr Cys Ser Asn Glu Phe Thr Gln Pro Ser Ile Pro
 225 230 235 240
 His Glu Ser Gly Gln Asp Pro Val Thr Cys Asp Ser His Thr Asp Cys
 245 250 255
 Val Arg Val Thr Pro Pro Val Pro Gly Phe Pro Glu Pro Cys Leu Ser
 260 265 270
 Arg Leu Thr Gly Gln Ser Trp Asp Met Asn Trp Ala Pro Glu Leu Ala
 275 280 285
 Leu Phe Val Ser Arg Ser Ser Arg Cys Leu Cys Arg Leu Pro Asn Pro
 290 295 300
 Cys Ser Trp Ala Trp Val Ala Glu Ser Ala Gly Arg Leu Trp Cys Met
 305 310 315 320
 His

<210> 225
 <211> 314
 <212> PRT
 <213> Homo sapiens

<400> 225

Leu Cys Tyr Cys Val Ile Ile Ile Ile Val Pro Phe Pro Ser Ile Pro
 1 5 10 15
 Gln Thr His Thr Tyr Val Glu Ile Leu Arg Gly Asp Asp Val Leu Phe
 20 25 30
 Thr Ser Ala Cys Leu Met Leu Ser Pro Val Leu Gly Thr Asn Ala Ile
 35 40 45
 Val Phe Leu Glu His Glu Ile His Gln Lys His Glu Trp Ile Trp Trp
 50 55 60
 Gly His Lys Arg Leu Thr Pro Gly Ser Arg Asn Leu Gly Gly Glu Thr
 65 70 75 80
 Ser Gly Leu Glu Gly Ala Glu Asp His Cys Val Arg Ser Thr Trp Phe
 85 90 95
 Trp Leu Ala Gly Leu Ala Arg Met Gln Arg Ser Phe Trp Val Leu Leu
 100 105 110
 Lys Phe Lys Thr Thr Ile Ile Ile Asn Ile His Leu Val Leu Thr Met
 115 120 125
 Cys Gln Ser Leu Ile Ala Phe Tyr Val Phe Ser His Ser Ser Lys Phe
 130 135 140

Gly Leu Asp Ile Phe Pro Val Tyr Thr Ile His Met Arg Lys Arg Val
 145 150 155 160
 Glu Gln Gly Gly Ala Glu Thr Cys Pro Arg Ile His Ser Lys Asn Gly
 165 170 175
 Asn Trp Asp Trp Ser Pro Arg Asp Ser Cys Phe Leu Asp Phe Val Phe
 180 185 190
 Leu Ile Ser Leu Pro Leu Arg Leu Phe Ile Asp Ile Phe Thr Phe Tyr
 195 200 205
 Phe Glu Ile Ile Val Asp Ser Gln Glu Val Thr Arg Glu Arg Ser Cys
 210 215 220
 Val Leu Phe Thr Gln Ile Ser Pro Met Leu Arg Phe Tyr Ile Thr Val
 225 230 235 240
 Ile Gln Tyr Glu Asn Gln Glu Thr Asp Ile Gly Ser Ile Tyr Val Tyr
 245 250 255
 Thr Ser Met Pro Phe His His Val Met Pro Pro Ser Pro Ser Cys Arg
 260 265 270
 Thr Val Pro Ser Pro Arg Arg Ser Ala Thr Cys Cys Ser Phe Lys Val
 275 280 285
 Ile Pro Ala Leu Phe Pro Val Pro Thr His Cys His Tyr Ala Pro Leu
 290 295 300
 Val Thr Thr Asn Leu Phe Ser His Leu Tyr
 305 310
 <210> 226
 <211> 312
 <212> PRT
 <213> Homo sapiens
 <400> 226
 Gly Ala Arg Gly Gly Glu Ala Ser Thr Ser Leu Glu Ser Gln Val Glu
 1 5 10 15
 Asp Thr Ala Glu Gln Thr Ser Asn Leu Ile Thr Val Thr Leu Ile His
 20 25 30
 Pro Gln Leu Ala Lys Tyr Thr Leu Ile Val Asn Phe Leu Pro Leu Trp
 35 40 45
 Ser Leu Ser Asp Ile Ser Thr Asp Leu Leu Phe Ile Leu Leu Arg Leu
 50 55 60
 Arg Asn Ile Ile Arg Ile Leu Gln His Leu Gly Glu Ile Ile Glu Ser
 65 70 75 80
 Ala Met Val Ser Phe Ala Asp Ile Tyr Ser Trp Ser Lys Trp Asn Thr
 85 90 95
 Asn Gln Asn Trp Leu Pro Tyr Ile Leu Gln Arg Pro Thr Gly Gly Lys
 100 105 110
 Gly Leu Trp Lys Val Cys Phe Ala Thr Arg Gln Ile Leu Asp His Pro
 115 120 125

00100US1.ST25.txt

Val Ser Gly Ser Ile His Ser Phe Pro Asp Ser Pro Asp Asp Ile Pro
 130 135 140
 Pro Ser Phe Thr Tyr Ile Asn Ser Thr Val Pro Ile Cys Tyr Ile Ala
 145 150 155 160
 Ser Phe Leu Leu Phe Ile Ile Cys Leu Pro His Gln Asn Ala Ser Ser
 165 170 175
 Ile Trp Ala Val Ala Thr Leu Phe Thr Val Tyr Leu Ser Val Ser Met
 180 185 190
 Lys Ser Asp Ile Met Pro Gly Ile Tyr Tyr Glu Leu Asn Asn Tyr Val
 195 200 205
 Asn Glu Ile Met Arg Lys Ser Cys Leu Ile Thr Cys Gln Pro Tyr Asn
 210 215 220
 Ala Ser Gln Phe Phe Pro Leu Gln Phe Leu His Leu Asn Trp Ile Thr
 225 230 235 240
 Gln Met Leu Thr Leu Trp His Cys Trp Asn Asn Tyr Leu Lys Ser Cys
 245 250 255
 Lys Phe Ile Ala Tyr Trp Lys Cys Gly Ser Glu Cys Asp Thr Pro Gln
 260 265 270
 Tyr Gly Val Leu Val Val Leu Thr Glu Gly Asn Lys Ser Phe Arg Asn
 275 280 285
 Lys Val Phe Leu Ala Phe Ser His Leu Ser Phe Ser Cys Ser Pro Phe
 290 295 300
 Phe Pro Lys Ala Asp Gln Arg Asn
 305 310
 <210> 227
 <211> 321
 <212> PRT
 <213> Homo sapiens
 <400> 227
 Gly Cys Ser Pro Glu Asp Asp Leu Gly Cys Ser Gly Val Asn Tyr Pro
 1 5 10 15
 His Phe Leu Arg Ala Ser Met Trp His Ser Trp Pro Trp Ala Ser Ala
 20 25 30
 Cys Pro Ala Asn Ala Gln Pro Val Pro Ala Val Pro Pro Pro Leu Ala
 35 40 45
 Ala Gln Pro Gln Val Trp Pro Ser Gly Leu Tyr Pro Arg Pro Pro His
 50 55 60
 Leu Pro Thr Leu Phe Leu Cys Ser Glu Leu Ser Thr Ala Ala Pro Ala
 65 70 75 80
 Pro Trp Leu Pro Leu Ile Leu Cys Leu Val Ser Phe Phe Gly His Ser
 85 90 95
 Phe Ala Ala Thr Leu Tyr Trp Ile Thr Leu Leu Gly Val Leu Ile Ile
 100 105 110
 Ser His Pro Leu Leu Leu Pro Asn Gly Pro Ser Thr Ile Ser Phe His


```

115              120              125
Arg Leu Asn Gly Lys Gly Gly Val His Ile His Arg Ile Lys Gln Val
130              135              140
Met Pro Leu His Ser Gly Val Cys Asp Asp Asn Phe Tyr Ala Phe Tyr
145              150              155              160
Thr Asn Ile Phe Val Ser Leu Cys Phe Leu Pro Cys Leu Arg Ala Leu
165              170              175
Gln Gly Leu Ala Leu Gly His Pro Val Leu His Thr His Thr Arg Thr
180              185              190
His Thr Arg Thr Cys Thr His Val His Thr His Ala His Thr His Thr
195              200              205
His Thr His Lys His Thr His Ser Leu Ala Leu Ala Asn Ala Ser Leu
210              215              220
Ala Leu Thr Thr Asn Val Ser Ala Ser Asp Leu His Asn Leu Ile Trp
225              230              235              240
Leu Phe Leu Phe Leu Gly Val Ile Cys Leu Pro Glu Gly Arg Ala Asn
245              250              255
Ser Pro Ala Ile Pro Ala Ala Tyr Ser Leu Pro Val Pro Ser Phe Pro
260              265              270
Arg Arg Gln Gln Thr Glu Arg Gly Lys Arg Tyr Lys Glu Ala Trp Gly
275              280              285
Trp Gly Lys Glu Ser Ser Tyr Leu Thr Ser Ala Pro Leu Thr Leu Leu
290              295              300
Gly Glu Val Pro Thr His Ser Ser Gly Met Thr Thr Arg Met Val Ser
305              310              315              320
Leu

```

```

<210> 228
<211> 123
<212> PRT
<213> Homo sapiens

```

```

<400> 228

```

```

Asp Cys Ala Ala Ala Leu Pro Gly Gln Ser Lys Thr Pro Phe Gln Lys
1              5              10              15
Lys Lys Lys Lys Lys Lys Glu Arg Lys Glu Phe Met Asp Val Ile Val
20              25              30
Lys Gly Leu Val Pro Ser Pro Ile Ser Cys Phe Pro Ser Cys His Val
35              40              45
Thr Cys Trp Phe Pro Phe Thr Phe Cys His Asp Trp Lys Leu Pro Gly
50              55              60
Ala Ser Pro Glu Ala Lys Gln Met Pro Gly Pro Cys Phe Leu Tyr Ser
65              70              75              80
Leu Leu Asn Pro Glu Pro Asn Lys Pro Leu Phe Ile Thr Asn Tyr Leu
85              90              95

```

Gly Ser Asp Ser Pro Leu Gln Cys Lys Trp Thr Asn Thr Pro His Asp
 100 105 110

 Leu His Pro Gln Thr Thr Gly Gly Thr Gln His
 115 120

 <210> 229
 <211> 210
 <212> PRT
 <213> Homo sapiens

 <400> 229

 Ser Ala Cys Gly Gly Phe Asn Gly Leu His Phe Tyr Ser Asn Ile Ser
 1 5 10 15

 His Gln Leu Tyr Ile Tyr Tyr Leu Lys Val Phe Leu Phe Ile Val Phe
 20 25 30

 Gln Phe Ile Phe Gln Ile Arg Ser Lys Gln Asn Tyr Ser Trp Arg Leu
 35 40 45

 Cys Cys Leu His Pro Gln Tyr Gln Met Phe Met Ala Ser Thr Glu Pro
 50 55 60

 Gly Val Ser Met Glu Ser Leu Arg Asp Cys Leu Ser Phe Ser Glu Glu
 65 70 75 80

 Ser Val Met Phe Ser Ile Pro Glu Glu Ala Glu Ile Thr Leu His Tyr
 85 90 95

 Phe Phe Glu Leu Cys Ala Gly Arg His Gly Ser Glu Ile Cys Leu Ser
 100 105 110

 Asp Ser Asn Ser Ser Ser Ile Cys Val Leu Val Phe Val Val Ala Phe
 115 120 125

 Cys Ile Gln Leu Pro Asp Asn Phe Phe Leu Met Phe Cys Cys Asn Leu
 130 135 140

 Val Lys Leu Leu Phe Tyr Lys Leu Met Phe Trp Tyr Phe Gly His Gln
 145 150 155 160

 Ile Leu Ala Arg Gly Lys Ile Arg Thr Arg Ser Thr Ser Cys Lys Thr
 165 170 175

 Lys Leu Ile Phe Leu Val Asp Phe Trp Asn Gly Leu Phe Cys Phe Pro
 180 185 190

 Ile Cys Val Tyr Phe Leu Lys Ser Cys Arg Cys Ile Tyr Glu Tyr Leu
 195 200 205

 Phe His
 210

 <210> 230
 <211> 204
 <212> PRT
 <213> Homo sapiens

 <400> 230

 Val Ile Asn Ser Ser Cys Pro Ser Ile Ile Gly Leu Gly Thr Pro Gly
 1 5 10 15

Phe Ser Cys Ser Ser Ser Val Ile Gly Arg Lys Ile Gly His Trp Leu
 20 25 30
 Lys Gln Ile Leu Ser Phe Leu Gly Val Val Phe Thr Leu Lys Ala Leu
 35 40 45
 Arg Pro Leu Gly Gly Ser Ala Ile Leu Gln His Gly Arg Cys Pro His
 50 55 60
 Thr Trp Met Ala Ala Phe Tyr Tyr Tyr Ser Leu Asp Thr Gly Phe Phe
 65 70 75 80
 Ala His Val Tyr Thr Leu Gly Ser Ile Cys Tyr Pro Phe Phe Thr Leu
 85 90 95
 Lys Gln Val Ile Gly Lys Phe Ile Ser Ile Trp Lys Thr Asn Asp Gln
 100 105 110
 Lys Asn Pro Ser Asn Pro Lys Phe Thr Glu Ala Arg Leu Leu Lys Arg
 115 120 125
 Lys Asp Ile Phe Leu Cys Arg Lys Val Met Phe His Arg Gly Phe Cys
 130 135 140
 Asn Ala Leu Thr Leu Asp Arg Ser Pro Pro Ser Ile Leu Gly Ile Thr
 145 150 155 160
 Ser Phe His Phe Ser Cys Lys His Ser Ser Pro Cys Thr Leu Gln Asp
 165 170 175
 Phe Ser Leu Phe Glu Ile Gly Leu His Ser Val Gly Arg Gly Asp Trp
 180 185 190
 Phe Gln Lys Glu Gly Ala Ala Gly Arg Asp Phe Ala
 195 200

 <210> 231
 <211> 186
 <212> PRT
 <213> Homo sapiens

 <400> 231
 Gln Gly Arg Cys Thr Pro Pro Val Ile Leu Gly Val Ile Ser Ser Pro
 1 5 10 15
 Pro Leu Asp Ile Arg Asn Asn Ile Thr Ala Gly Val Gly Val Val Tyr
 20 25 30
 Ser Leu Cys Asn Ile Gly Ser Asn Ile Ile Leu Ser Pro His Trp Ile
 35 40 45
 Leu Gly Thr Ile Ser Gln Glu Val Trp Thr Pro Pro Ala Ile Leu Gly
 50 55 60
 Val Thr Ser Phe Ser Phe Pro Ser Gly Tyr Glu Gln Tyr Cys Ile Gly
 65 70 75 80
 Val Tyr Thr Pro Ser Asp Ile Arg Ser Asn Ile Ile Leu Ser His Ser
 85 90 95
 Gly Tyr Glu Gln Tyr Leu Arg Arg Ser Val Glu Pro Leu Arg Tyr Glu
 100 105 110

00100US1.ST25.txt

Tyr His Pro Leu Pro Pro Trp Ile Leu Gly Thr Ile Thr Gln Gly Glu
 115 120 125

Tyr Thr Ala Pro Val Ile Leu Arg Val Ile Ser Ser Pro His Leu Asn
 130 135 140

Ile Arg Asn Asn Ile Arg Gly Val Gly Tyr Thr Ile Cys Asp Ser Gly
 145 150 155 160

Arg Asn Ile Ile Leu Ser Pro Pro Gly Tyr Glu Gln Tyr His Lys Trp
 165 170 175

Ser Ile His Pro Leu Arg Tyr Trp Glu Tyr
 180 185

<210> 232

<211> 157

<212> PRT

<213> Homo sapiens

<400> 232

Asp Asn Leu Cys Ser Pro Cys Ser Ser Thr Pro His Ile Pro Ile Val
 1 5 10 15

Cys Pro Phe His Ser Ala Pro Phe Ser Val Gln Thr Glu Leu Phe Thr
 20 25 30

Asn His Tyr Pro Leu Leu Glu Met Glu Gly Ala Pro Phe Pro Thr Pro
 35 40 45

Pro Leu Pro Pro Gln Leu Ser Ser Pro Arg Arg Leu Ser Ile Asn Arg
 50 55 60

Leu Thr Ile Ser Leu Asn Phe His Ile Phe Val Trp Leu Ser Tyr Leu
 65 70 75 80

Phe Thr Phe Ile Asn Leu Leu Cys Phe Ser Leu Val Asn Gln Ser Phe
 85 90 95

Phe Ile Gly Val Ser Ala Val Ser Leu Tyr Asp Gly Glu Glu Lys Asn
 100 105 110

His Pro Leu Ser Thr Pro Thr Ser Asp Arg Ser Gln Asp Ile Pro Leu
 115 120 125

Lys Phe Gly Lys Val Asn Thr Ser Thr Pro Cys Ile Leu Pro Asp Asn
 130 135 140

Thr Lys Asn Phe Ile Gln Tyr Ile Tyr Tyr Met Ile Lys
 145 150 155

<210> 233

<211> 178

<212> PRT

<213> Homo sapiens

<400> 233

Arg Ser Arg Lys Val Asn Trp Pro Lys Val Gly Ile Tyr Ile Pro Val
 1 5 10 15

Leu Leu Leu Glu Cys Cys Leu Phe Leu Asn His Pro Trp Ser Arg Pro
 20 25 30

Thr Pro Ser Cys Thr Tyr Thr Asn Pro Ile Leu Ser Gln Thr Gly Leu
 35 40 45

Trp Leu Asp Ile Gly Glu Lys Gln Leu Asp Gly Leu Thr Pro Lys Lys
 50 55 60

Asn Pro Ala Arg Asp Gly Gln Asn Phe Arg Gly Gly Leu Arg Tyr Arg
 65 70 75 80

Pro Cys Leu Leu Leu Ser Ser Pro Ser Cys Arg Glu Pro Arg Phe Ile
 85 90 95

His Asn Lys Ile Pro His Ile His His Pro Ser Ile Tyr Ser Cys Asn
 100 105 110

Leu Ile Phe Pro Gly Trp Trp Thr Arg Ala Arg Glu Pro Gln Val Glu
 115 120 125

Ile Gln Lys Ala Val Thr Leu Ala Leu Cys Pro Cys Trp Arg Arg Ala
 130 135 140

Ala Ala Ser His Arg Gly Arg Gly Pro Thr Glu Leu Leu Thr Leu Lys
 145 150 155 160

Pro Ser Ala Asp Gly Arg Ala Lys Thr Ala Leu Glu His Ala Leu Trp
 165 170 175

Gly Phe

<210> 234

<211> 188

<212> PRT

<213> Homo sapiens

<400> 234

Ile Glu Thr Lys Leu Asn Thr Phe Ala Lys Leu Leu Arg Ser Lys Phe
 1 5 10 15

Leu Val Pro Arg Leu Glu Leu Pro Asn Ala Asp Lys Ser Ser Pro Val
 20 25 30

Gly Ser Pro Thr Leu Phe Lys Gln Phe Leu Asp Phe Ala Pro Val Glu
 35 40 45

Ala Asp Met Leu Asn His Lys Thr Pro Leu Leu Leu Ala Leu Ala Tyr
 50 55 60

Cys Phe Gly Arg Ser His Phe Ser Lys Ile Arg Ala Ser Leu Ile Asn
 65 70 75 80

Thr Gly Ile Arg Phe Leu Ser Gly Val Gly Ile Pro Glu Asp Arg Ile
 85 90 95

Ile Tyr Phe Ala Leu Ser Arg Cys Val Met Arg Thr Glu Ala Met Leu
 100 105 110

Ile Arg Asp Pro Trp Glu Leu Val Ile Tyr Tyr Leu Leu Phe Leu Pro
 115 120 125

Lys Ile Asp Leu Met Glu Arg Gly Cys Ile Ile Tyr Pro Leu Ser Lys
 130 135 140

Glu Ala Phe Pro Asn Thr Thr Glu Ala Val Ile Leu Lys Thr Ala Leu

145 150 155 160
 Trp Leu Cys Ser Gln Leu Tyr Phe Leu Pro Phe His Asn Phe Leu Pro
 165 170 175
 Ser Ala Met Glu Leu Met Gly His Thr His Ile His
 180 185
 <210> 235
 <211> 165
 <212> PRT
 <213> Homo sapiens
 <400> 235
 Lys Lys Lys Thr Pro Met Ile Trp Ile Leu Leu Ser Phe Leu Phe Ser
 1 5 10 15
 Gln Met Val Ile Leu Lys Leu Ile Glu Val Val Tyr Arg Val His Ser
 20 25 30
 His Thr Val Arg Lys Arg Gln Ser Gln Gly Leu Asn Ser Ser Ser Leu
 35 40 45
 Thr Ile Glu Pro Ile Phe Leu Ile Thr Ile Gln Tyr Phe Thr Ile Cys
 50 55 60
 Ser Ile Lys Arg Asn His Phe Ser Glu Trp Arg Asn Ile His Glu Asn
 65 70 75 80
 Lys Ser Ile Ile Gln Asp Thr Cys Lys Ala Ser Arg His Ser Arg Phe
 85 90 95
 Arg Leu Leu Ala Pro Trp Pro Arg Leu Ile Thr Phe Gln Glu Asn Lys
 100 105 110
 Thr Thr Tyr Gln Asp His Thr Ser Arg Asn Asp Leu Arg Ile Met Gly
 115 120 125
 Thr Ala Ile Trp Val Ser Asn Gly Leu Glu Ser Asp Lys Trp Phe Leu
 130 135 140
 Asn Arg Phe Pro Glu Trp Gly Asn Leu Val Leu His Gln Ala Thr Tyr
 145 150 155 160
 Val Ile Phe Ile Leu
 165
 <210> 236
 <211> 218
 <212> PRT
 <213> Homo sapiens
 <400> 236
 Ser Phe Leu Ser Phe Asn Arg Val Glu Lys Ile Ile Ile Ser Trp Glu
 1 5 10 15
 Pro Ser Phe Phe Tyr Tyr His Glu Cys Lys Cys Thr Ser Met Thr His
 20 25 30
 Leu Pro Leu Arg Ile Lys Leu Gln Tyr Lys Lys Tyr His Tyr Thr Tyr
 35 40 45
 Leu Ser Leu Ser Phe Asn Cys Leu Leu Glu Pro Ile Leu Phe Cys Leu

50 55 60
 Pro Arg Thr Ser Thr Met Asp Tyr Pro Phe Thr Ile Ala Leu Ser Phe
 65 70 75 80
 Ser Ser Phe Cys Ile Cys Phe Pro Leu Ile Phe Lys His Asp Val Ile
 85 90 95
 Phe Ile Arg Asp Ile Asn Ile Leu Ile Thr Trp Phe Thr Arg Thr Thr
 100 105 110
 Pro Ser Ser Val Val Trp Arg Thr Lys Leu Leu Glu Arg Asp Val Gln
 115 120 125
 Thr Gln Tyr Leu Tyr Phe Cys Met Pro His Lys Ser Ser Leu Ile Phe
 130 135 140
 Ile Leu Ile Ser Leu Leu Lys Asp Val Thr Lys Asp Thr Asn Glu Phe
 145 150 155 160
 Gln Lys Ser Pro Asn Pro Met Glu Ile His Phe Pro Leu Ser Leu Ser
 165 170 175
 Ser Asn Ile Leu Pro Leu Val Phe Gln Asp Ser Phe Leu Leu Ser Phe
 180 185 190
 Leu Leu Thr Leu Phe Ser Ser Leu Lys Ile His Pro Pro Leu Pro Ser
 195 200 205
 His Lys Met Leu Arg Val Glu Gly Gly Ser
 210 215
 <210> 237
 <211> 139
 <212> PKI
 <213> Homo sapiens
 <400> 237
 Thr Gln Cys Gln Phe Thr Lys Tyr Thr Ile Ile Tyr Ser Gln Asn Thr
 1 5 10 15
 Phe Ile Lys Arg Asn Phe Phe Lys Arg Arg Ser Cys Gln Cys Gln Tyr
 20 25 30
 Arg Asn Tyr Lys Asn Pro Phe Leu Phe Pro Leu Glu Ile Pro Ser Leu
 35 40 45
 Asp Cys Cys Ser Lys Asn Leu Ile Ser Lys Val Val Ser Leu Ser Leu
 50 55 60
 Asp Asn Asp Ile Arg Lys Cys Ser Arg Gln Ile Phe Ser Lys Ile Gln
 65 70 75 80
 Ser Ile Trp Tyr Leu Pro Lys Ser Lys Leu Gln Arg Glu Pro Glu Cys
 85 90 95
 Ser Pro Thr Ala Phe Ser Ser Ser Thr Gln Trp Ile Ser Tyr Met Leu
 100 105 110
 Asn Cys His Val Cys Ala Ser Leu Lys Cys Ala Phe Leu Phe Thr Glu
 115 120 125
 Met Arg Asp Val Leu Phe Met Ile Phe Ser Leu
 130 135

<210> 238
 <211> 213
 <212> PRT
 <213> Homo sapiens

<400> 238

Phe Gln Tyr Phe Val Thr Cys Arg Ser Lys Trp Trp His Ala Ser His
 1 5 10 15
 Leu Val Asn Ser Arg Ser Cys Cys Val Ser Asn Gly Asp Thr Leu Trp
 20 25 30
 Leu Leu Gln Met Val Thr Leu Pro Asn Cys Phe Pro Lys Arg His Val
 35 40 45
 Ala Phe Phe Ser Gln Ser Leu Ile Leu Thr Leu Met Val Ile Leu Leu
 50 55 60
 Tyr Phe Tyr Met His Leu Val Thr Cys Leu Ile Val Ile Phe Leu Glu
 65 70 75 80
 Ile Gln Phe Leu Leu His Arg Val Ser Phe Glu Ile Lys Glu Arg Glu
 85 90 95
 Val Ala Asn Leu Gly Cys Asn Asn Phe His Leu Lys Val Asp Pro Cys
 100 105 110
 Phe Tyr Tyr Pro Ile Ile Asn Val Phe Cys Phe Pro Leu Ser Ala Ser
 115 120 125
 Tyr Cys Ser Phe Asp Ser Tyr Cys Gln Thr Glu Leu Ser Cys Phe Leu
 130 135 140
 Ala Arg Lys Glu Thr Thr Met Asn Glu Pro Leu Asp Tyr Leu Ala Asn
 145 150 155 160
 Ala Ser Asp Phe Pro Asp Tyr Ala Ala Ala Phe Gly Asn Cys Thr Asp
 165 170 175
 Glu Asn Ile Pro Leu Lys Met His Tyr Leu Pro Val Ile Tyr Gly Ile
 180 185 190
 Ile Phe Leu Val Gly Phe Pro Gly Asn Ala Val Val Ile Ser Thr Tyr
 195 200 205
 Ile Phe Lys Met Arg
 210

<210> 239
 <211> 168
 <212> PRT
 <213> Homo sapiens

<400> 239

Trp Phe Thr Tyr Pro Leu Asn Lys Gln Leu Leu Arg Ile Pro Ala Pro
 1 5 10 15
 Ala Gln Arg Gln Tyr Trp Gly Leu Cys Leu Arg Met Trp Ala Leu Glu
 20 25 30
 Leu Cys Gly Trp Gly Ser Asn Ser Gly Arg Ala Ala Val Arg Pro Trp
 35 40 45

Thr Ser Gly Ser Ser Lys Thr Asp Arg Gln Phe Ile Phe Ile Leu Val
 50 55 60
 Pro Gln Ile Val Val Leu Leu Ser Asn Tyr Leu Gly Phe Ile Pro Arg
 65 70 75 80
 His Trp Glu Ser Lys Leu Phe Ser Phe Ser Cys Leu Gln Lys Ser Ser
 85 90 95
 Leu Thr Ile His Val Ala Tyr His Trp Ile Gly Leu His Ile Lys His
 100 105 110
 Phe Val Thr Thr Phe Ala Cys Gly Tyr Ile Leu Leu Ser Phe Ser Tyr
 115 120 125
 Phe Leu Leu Ala Leu Leu Glu Tyr Ser His Lys Ser Leu Ser Ser His
 130 135 140
 Phe Trp Pro Pro Phe Asp Ser Phe Ser Leu Leu Cys Cys Cys Glu Ser
 145 150 155 160
 Phe His Val Gln Asp Ser Arg Trp
 165
 <210> 240
 <211> 185
 <212> PRT
 <213> Homo sapiens
 <400> 240
 Ser Thr Met Cys Ile Phe Phe Trp Ala Lys Met Arg Gln Arg Cys His
 1 5 10 15
 Val Asn Phe Ser Phe Leu His Thr Thr Ile Val Ser His Lys Thr Lys
 20 25 30
 Asn Lys Arg Lys His Met Phe Thr Val Gly Arg Ile Ile Thr Arg Ser
 35 40 45
 Ser Val Ala Trp Pro Lys Glu Pro Leu Pro Thr Tyr Trp Gly Cys His
 50 55 60
 Met Lys Gly Phe Ser Lys Arg Leu Ala Ile Phe Ile Lys Gly Val Arg
 65 70 75 80
 His Gly Ser Gly Gln Gln Thr Ser Leu Trp Lys Gly Ser Lys Leu Leu
 85 90 95
 Gln Gln Asn Glu Arg Ile Met Val His Leu Pro Thr Leu Cys Asn Leu
 100 105 110
 Trp Met Lys Pro Gln Pro Arg Lys Val Lys Leu Leu Cys Val Cys Val
 115 120 125
 Trp Gly Cys Glu Gly Arg His Arg Lys Gly Lys Ala Asp Arg Pro Trp
 130 135 140
 Lys Thr Asp Ile Ser Pro Gly Glu Trp Asn Gly Gln Ser His Asn Thr
 145 150 155 160
 His Val Leu Asn Ile Thr Cys Phe Arg Lys Tyr Asn Ile Lys Thr Leu
 165 170 175

Phe Lys Ser Tyr Ser Leu Met Ile Ser
180 185

<210> 241
<211> 196
<212> PRT
<213> Homo sapiens

<400> 241

Val Leu Asp Ile Asp Val Arg Met Gly Gly Leu Ser Tyr Pro Ser Pro
1 5 10 15
His Val Phe Leu Leu Arg Asp Ser Asn Cys Asn Thr Ser Leu Val Phe
20 25 30
Phe Ala Ser Ser Leu Ile Pro Tyr Gln Gly Lys Ser Ser Glu Leu Ser
35 40 45
Asn Glu Ile Trp Lys Glu Lys Val Ser Lys Tyr Thr Gln His Tyr Ser
50 55 60
Thr Ser Phe Ser Leu Gly Leu Ala Ser Leu Gln Arg Glu Tyr Ile Leu
65 70 75 80
Leu Cys Ala Gly Ser Phe Pro Lys Leu Ile Ser Gly Phe Val Asn His
85 90 95
Gly Thr Ile Asp Ile Leu Asp Gln Ile Ile Leu Cys Cys Met Ala Cys
100 105 110
Ser Val Phe Cys Gln Ile Phe Gly Ile Ile Pro Gly Leu Asn Leu Pro
115 120 125
Asp Ala Asn Ser Thr Phe Ser Leu Lys Thr Ile Gln Ile Phe Gln Asp
130 135 140
Val Ala Lys Cys Pro Ser Gly Leu Lys Val Ala Pro Asn Ser Asn His
145 150 155 160
Cys Phe Glu Ala Cys His His Arg Glu Gly Cys Leu Arg Leu Asn Val
165 170 175
Cys Leu Arg Leu Ile Tyr Thr Pro Lys Ser Asn Ser Thr Val Thr Leu
180 185 190
Ile Ser Arg Lys
195

<210> 242
<211> 198
<212> PRT
<213> Homo sapiens

<400> 242

Phe Ala Leu Phe Pro Met Phe Ile Ile Ser Leu Asn Gly Thr Pro Ile
1 5 10 15
Cys Met Val Ala Trp Glu Ile Tyr Gly Ile Ile Leu Glu Pro Ser Phe
20 25 30
Phe Ile Ile Pro Met Ser Arg Ser Glu Ile Leu Ser Glu Tyr Ala Ser
35 40 45

Leu Ile Tyr Leu Lys Leu Ala His Phe Lys Phe Leu Ser Ile Leu Thr
 50 55 60
 Leu Leu Tyr Leu Asn Asp Tyr His Ser Pro Asn Cys Phe Leu Met Gly
 65 70 75 80
 Leu Ile Gly Lys Thr Asn Leu Phe Leu Ile Leu Pro Leu Glu Leu Ser
 85 90 95
 Phe Gln Thr Arg Met Trp Pro Ser Phe Phe Leu Thr Asn Asp Leu Ile
 100 105 110
 Val Pro Lys Thr Lys Ser Ile Leu Ser Leu Asn Asn Ile Gln Gly Pro
 115 120 125
 His Ser Arg Ser Ser Leu Ile Pro Thr Ser Val Phe Leu Ser Ser Ser
 130 135 140
 Pro Ser Gln Ser Thr Leu Ser His Thr Arg Tyr Ser Thr Trp Ser His
 145 150 155 160
 Ile Lys Leu Leu Ser Ile Leu Gly Phe Leu Leu Ala Phe Asn Pro Leu
 165 170 175
 Leu Gly Trp Cys Ile Pro Gly Glu Trp Ser Asn Pro Cys Thr Cys Tyr
 180 185 190
 His Ala Pro Thr Phe Leu
 195
 <210> 243
 <211> 180
 <212> PRT
 <213> Homo sapiens
 <400> 243
 Leu Cys Asp Gly Val Met Arg Trp Gly Arg Arg Val Trp His His Ala
 1 5 10 15
 Thr Gly Phe Pro Pro Lys Leu Ser Thr Pro Arg Ser Thr Ser Ala Ser
 20 25 30
 Gly Met Ser Ala Gly Ser Gln Arg Leu Trp Arg Arg Gly Ser Ser His
 35 40 45
 Ala Val Gln Thr Phe Asn Pro Leu Gln Ser Ser Leu Ala Arg Glu Gln
 50 55 60
 Gln Ser Leu Leu Glu Arg Asn Tyr His Ser Lys Gln Glu Phe Arg Pro
 65 70 75 80
 His Leu Ser Glu Asp His Val Glu Val His Leu Ala Gly Lys Val Ala
 85 90 95
 Ser Gly Cys Gly Leu Phe Asn Tyr Thr Leu Leu Phe Thr Leu Phe Thr
 100 105 110
 Ile Val Cys Lys Val Gln His Leu Gln Ala Arg Asn Thr Gly Leu Pro
 115 120 125
 His Ser Gly Trp Leu Gly Leu Met Lys Ala Ala Lys Gln Cys Ala Gln
 130 135 140
 Ser Lys Gln Arg Leu Pro Leu Ala Gly Ala His Ser Pro Arg Glu Gly

145 150 155 160
 Ile Ser Phe Ser Leu Asp Leu Gly Ala Lys Ala Thr His Gly Ser Asp
 165 170 175

 Gln Thr Thr Cys
 180

 <210> 244
 <211> 129
 <212> PRT
 <213> Homo sapiens

 <400> 244

 Val Glu Gln Leu Glu Thr His Gly Ser Val Leu Glu Trp Leu Val Trp
 1 5 10 15
 Asp His Phe Leu Gly Asp His Ser Ala Leu Thr Asp Gln Thr Gln Val
 20 25 30
 Asn Gly Thr Cys Pro Leu Pro Phe Pro Pro Gly Phe Gly Thr Val Ala
 35 40 45
 Thr Arg Val Val Phe Pro Ser Arg Gln Leu Leu Arg Val Ile Pro Glu
 50 55 60
 His Ser Leu Gly Ala Cys Ser Val Leu Thr Val Ile Ser Phe Ile Leu
 65 70 75 80
 Thr Ala Ile Pro Phe Cys Ile Phe Ser Gly His Pro Gln Asp His Pro
 85 90 95
 Gly Gln Pro Cys Leu Thr Pro Gly Leu Val Trp Leu His Asp Asn Lys
 100 105 110
 Asp Ala Gly Pro Glu Thr Ile Pro Leu His Gly Ala Cys Ile Phe Pro
 115 120 125

 Leu

 <210> 245
 <211> 181
 <212> PRT
 <213> Homo sapiens

 <400> 245

 Glu Ser Lys Met Leu Ile Gly Gly Ala Pro Pro Gln Cys Val Glu Asp
 1 5 10 15
 Leu Ala Ala Leu Asp Ala Tyr Ser Gln Ala Leu Gly Thr Arg Glu Ala
 20 25 30
 Pro Gly Leu Pro Phe Trp Ala Val Asp Leu Trp Gly Arg Ser Trp Pro
 35 40 45
 Leu Gly Trp Cys His Cys Ser Ser Tyr Pro Lys Cys Pro Phe Tyr Ala
 50 55 60
 Cys Ser Gly Leu Ala Ser Asn Thr Leu Lys Val Ser Ser Lys Gly Gln
 65 70 75 80
 Gly Arg Val Pro Cys Gly Lys Arg Trp Leu Phe Glu Ala Lys Ala Gln

85

90

95

Arg Arg His Ser Gln Arg Met Gly Arg Ala Ala Gly Gln Val Ser Ala
 100 105 110

Ser Thr Trp Lys Thr Pro Ala Trp Leu Ala Ala Gly Glu Ile Val Leu
 115 120 125

Pro Arg Cys Gln Leu Leu Ser Arg Pro Leu Pro Arg Glu Pro Ser His
 130 135 140

Leu Ser Phe Ser Tyr Pro Ser Leu Arg Lys Ala Gln Ala Gln Gly Ala
 145 150 155 160

Met Val Pro Cys Ser Gln Thr Val Ile Ser Glu Trp Pro Leu Val Trp
 165 170 175

Gly Pro Arg Val Gln
 180

<210> 246
 <211> 137
 <212> PRT
 <213> Homo sapiens

<400> 246

Gln Asn Thr Phe Tyr His Ile Asn Ser Cys Thr Met Ile Trp Leu Glu
 1 5 10 15

Glu Lys Asn Ser Trp Lys Val Lys Phe Val Leu Lys His Leu Phe Lys
 20 25 30

Ser Leu His Thr Phe Ile Cys Pro Asp Lys Thr Cys Leu Asn Phe Phe
 35 40 45

Leu Lys Gln Leu Tyr Cys Pro Ser Ile Cys Leu Thr Lys Phe Phe Lys
 50 55 60

Gly His Phe Gln Pro Phe Gln Arg His Lys Val Gly Val Pro Lys Pro
 65 70 75 80

Pro Phe Leu Ala Leu Pro Val Glu Asn Thr Met Leu His Ser Tyr Met
 85 90 95

Cys Pro Leu Thr Gln Thr Thr Leu Ile Leu Arg Arg Ser Leu Asp Leu
 100 105 110

Lys Leu Leu Leu Leu Ala Val Pro Ala Asn Ser Arg Val Lys Glu Asp
 115 120 125

Val Thr Arg His Thr Tyr Leu Pro Phe
 130 135

<210> 247
 <211> 149
 <212> PRT
 <213> Homo sapiens

<400> 247

Ser Pro Met Leu Gln Phe Tyr Arg Leu Gly Lys Leu Arg Ala Gly Val
 1 5 10 15

Thr Cys Tyr Ser Ser Tyr Pro Gln Thr Tyr Lys Thr Lys Ser Phe Thr

```

                20                25                30
Glu Val Lys Tyr Asn Leu Phe Gly Leu Leu Phe His Phe Thr Ile Leu
   35                40                45
Ser Leu Leu Val Phe Ile Thr Ile His Ser Lys Glu Phe Ile His Val
   50                55                60
Asp Thr Ser Glu Val Phe Leu Ile Ser Pro Val Arg Pro Val Val Lys
   65                70                75                80
Leu Leu Trp His Tyr Ser Thr Phe Ser Leu Ser Val Phe Phe Pro Ser
   85                90                95
Pro His Arg Ser Glu Leu Ile Ser Pro His Pro Gly Pro Ser Glu Ser
  100                105                110
Phe Val Lys Ser Leu Leu Ser Asn Leu Ser Val Glu Arg Val Pro Leu
  115                120                125
Cys Leu Ser Glu Ile His Thr Val Met Cys His Leu Thr Met Phe Gln
  130                135                140
Ser Val Arg Asp His
145
<210> 248
<211> 145
<212> PRT
<213> Homo sapiens

<400> 248
Pro Ile Pro Pro Ser Glu Gly Leu Glu Lys Ala Phe Thr Phe Met Ser
 1                5                10                15
Pro Gly Ile Arg Ser Pro Gln Thr Arg Asn Phe Phe Leu Ile Met Glu
 20                25                30
Val Trp Gln Trp Ala Thr Lys Pro Lys Val Ser Val Leu Leu Ser Asp
 35                40                45
Ile Ala Ser Leu Arg Asn Arg Gln Pro Gly Arg Asp Gly Met Ser Leu
 50                55                60
Ile Lys Cys Ser Ala Glu Val Ser Ser Arg Gly Leu Trp Cys Cys Pro
 65                70                75                80
Ser Gly Cys Asn Ile Cys Thr Lys Pro Val Thr Glu Tyr Tyr Thr Glu
 85                90                95
Ser Val Val Pro Lys Ile His Gly Phe Leu Tyr Gln Gly Leu Asp Ile
100                105                110
Glu Ser Ala Leu Val Thr Ile Lys Trp Leu Arg Asn Phe Tyr Phe Ile
115                120                125
Cys Pro Gln Leu Arg Trp Ile Arg Ser Val Cys Ile Leu Ala Ser Val
130                135                140
Cys
145
<210> 249
<211> 146

```

<212> PRT

<213> Homo sapiens

<400> 249

Leu Thr Ser Val Ser Ser Val Lys Pro Lys Leu Ser Lys Cys Glu Ile
 1 5 10 15

Met Lys Cys Val Lys Leu Leu Ile Gln Cys Leu Arg Gln Gln Asn Ser
 20 25 30

Arg Leu Ile Ile Gln Ser Ile Gln Thr Thr Phe Tyr Gly Asp Asn Leu
 35 40 45

Trp Ser Glu Arg Leu His Lys Cys Ser Phe His Ser Tyr Ser Ser Ser
 50 55 60

Asn Thr Lys Leu Leu Ser Ile Pro Glu Leu Lys Met Thr Leu Leu Thr
 65 70 75 80

Asp Leu Tyr Leu Phe Ile Cys His Phe Ser Arg Arg Thr Ala Ile Leu
 85 90 95

Pro Gln Ser Pro Tyr Ala Phe Val Glu Ser Trp Leu Lys Pro Gln Ala
 100 105 110

Leu Cys Lys Ala Phe Leu Gly Ile Asp Ile Thr Thr Ile Pro Gln Asn
 115 120 125

Leu Leu Val Leu His Ala Ile Ser Gly Pro Trp Thr His Phe Tyr Cys
 130 135 140

Asn Lys
 145

<210> 250

<211> 84

<212> PRT

<213> Homo sapiens

<400> 250

Phe Thr Gln Glu Ser Ser Arg Pro Ser Thr Phe Gly Ala Asn Leu Glu
 1 5 10 15

Leu Gly Cys Arg Pro Ala Gly Thr Phe Ile Lys Cys Tyr Tyr Phe Ile
 20 25 30

Phe Ala Ser Glu Glu Leu Pro Asp Phe Val Lys Thr Leu Cys Asn Pro
 35 40 45

Ser Pro Phe Phe Trp His Ser Arg Gln Leu Asn Lys His Leu Leu Thr
 50 55 60

Pro Leu Leu Cys Val Ile Arg Cys Glu Arg His Trp Arg Tyr Glu Glu
 65 70 75 80

Pro Met Val Ser

<210> 251

<211> 62

<212> PRT

<213> Homo sapiens

<400> 251

Ala Pro Trp Gly Trp Ala Ser Val Ser Val Cys Ala Arg Leu Glu Met
 1 5 10 15
 Ala Ser Arg Tyr Gly Leu Gln Glu His His Glu Val His Leu Ile Phe
 20 25 30
 Ala Phe Leu Cys Gln His Val Cys His Leu Gln Cys Leu Thr Glu His
 35 40 45
 Val Gly Pro Ala Met Trp Ala Val Ser Leu Pro Ser Ser Tyr
 50 55 60

<210> 252

<211> 117

<212> PRT

<213> Homo sapiens

<400> 252

Lys Lys Glu Pro Thr Met Ile Trp Ile Leu Leu Ser Phe Leu Phe Ser
 1 5 10 15
 Gln Met Val Ile Leu Lys Leu Ile Glu Val Val Tyr Arg Val His Ser
 20 25 30
 His Thr Val Arg Lys Arg Gln Ser Gln Gly Leu Asn Ser Ser Ser Leu
 35 40 45
 Thr Ile Glu Pro Ile Phe Leu Ile Thr Ile Gln Tyr Phe Pro Ile Cys
 50 55 60
 Ser Ile Lys Arg Asn His Phe Ser Glu Trp Arg Asn Ile His Glu Asn
 65 70 75 80
 Lys Ser Ile Ile Gln Asp Thr Cys Lys Ala Ser Arg His Ser Arg Phe
 85 90 95
 Arg Leu Leu Ala Pro Trp Pro Arg Leu Ile Thr Phe Gln Glu Asn Lys
 100 105 110
 Thr Thr Tyr Gln Asp
 115

<210> 253

<211> 134

<212> PRT

<213> Homo sapiens

<400> 253

Thr Phe Ile Lys His Phe Phe Ser Gly Leu Ser Phe Ser Pro Ser Cys
 1 5 10 15
 His Val Ala Ile Ile Ile Phe Thr Ser Ala Ser Ala Tyr Phe Lys Pro
 20 25 30
 His Asn Lys Leu Leu Ala Phe Phe Phe Ala Ile Asp Asn Asn Leu Lys
 35 40 45
 Met Thr Gln Asn Phe Asn Gly Phe Ile Tyr Pro Gln Phe Tyr Asp Phe
 50 55 60
 Arg Ser Ser Phe Leu Cys Val Asp Leu Leu Ile Tyr His Phe Leu Ser


```

65              70              75              80
Thr Ile Thr Ser Phe Asn Leu Ser Cys Ser Thr Gly Leu Leu Thr Ile
      85              90              95
Asn Phe Phe Ser Phe Ser Leu Ser Lys Asn His Leu Phe Ser Leu His
      100             105             110
Phe Cys Lys Ile Phe Ser Arg Val Ile Lys Phe Val Thr Ile Phe Phe
      115             120             125
Glu Tyr Phe Lys Asp Leu
      130
<210> 254
<211> 138
<212> PRT
<213> Homo sapiens
<400> 254
Thr Phe Leu Ser Arg His Phe Leu Met Trp Lys Arg Phe Thr Glu Ser
1              5              10             15
Asp Thr Phe Lys Gly Leu Thr Arg Asp Ile Cys Cys Leu Cys Leu Leu
      20             25             30
Phe Ser Trp Arg Ser Ala Thr Asn Lys Ala Ser Ser Thr Gln Gly His
      35             40             45
Leu Ser Thr Gly Leu Phe Leu Ser Ser Ser His Asn Leu Ser Cys His
      50             55             60
Thr Ile Thr Ser Thr Thr Ser Leu Gly Pro Cys Ser Glu Pro Thr Phe
65              70              75             80
Phe Leu Pro Gln Val Gly Ile Ala Ser Ala Pro Tyr Cys Leu His Ser
      85             90             95
Glu Gly Ser Tyr Val His Ala Leu Asn Lys Phe Val Ser Pro Ile Asn
      100            105            110
Val Pro Phe Ala Ser Phe Phe Ser Glu Thr Ser Glu Val Gln Arg Gln
      115            120            125
Pro Leu Pro Ser Ser Arg Cys Ser Thr Tyr
      130            135
<210> 255
<211> 155
<212> PRT
<213> Homo sapiens
<400> 255
Cys Lys Thr Gly Gly Leu Lys Leu Ile Phe Arg His His Gly Ile Leu
1              5              10             15
Tyr Arg Leu Ser Leu Tyr Leu Glu Asp Val Arg Leu Met Glu Val Leu
      20             25             30
Ser Ile Leu Phe Pro Leu Leu Ile His Ser Phe Leu Phe Thr Glu Arg
      35             40             45
Leu Asn Phe Leu Ser His Ile Ser Val Leu Leu Ala Pro Leu Phe Phe

```

```

50          55          60
Pro Leu Leu Gln Lys Ser Gln Pro Gln Lys Gln Ser Thr Tyr Cys Glu
65          70          75          80
Lys Asp Phe Ser Asn His Lys Gly Asp Val Thr Leu Gly Leu Cys Phe
85          90          95
Leu Ser His Thr His Lys Ile Leu Asp Met Ser Glu Ile Leu Lys Asn
100         105         110
Trp Phe Leu Asn Val Met Lys Arg Val Ser Phe Ser Pro Glu Gln Asn
115         120         125
Asn Pro Cys Ser Leu Leu Pro Asp Met Gly Gly Phe Gln Ile Arg Asn
130         135         140
Leu Cys Ile Gly Pro Gln Ala Pro Asp Lys Val
145         150         155
<210> 256
<211> 185
<212> PRT
<213> Homo sapiens
<400> 256
Gly His Arg Pro Ser Phe His Phe Cys Lys Pro Arg Gly Ile Leu Thr
1          5          10          15
Asp Ser Thr Thr Tyr Pro Leu Leu Val Leu Ile Glu Glu Asp Thr Gly
20         25         30
Leu Lys Pro His Phe Phe Arg Ala Phe Val Cys Ile Ser Lys Ile Leu
35         40         45
Phe Tyr Arg His Leu Pro Phe Ser Phe Ile Phe Phe Leu Ser His Asn
50         55         60
Asn Ser Ala Phe Leu Leu Tyr Glu Cys Thr Ser Asp Leu Thr Gln Arg
65         70         75         80
Ile Gly Gly Gln Thr Asp Cys Leu Leu Ser Val Ser Cys Ala Leu Leu
85         90         95
Arg Arg Leu His Leu Ser Ala Asn Ser Ser Cys Thr Thr Phe Ser Asp
100        105        110
Phe Cys Cys Val Phe Ser Asp His Leu Leu Gly Ser Gly His Pro Leu
115        120        125
Asp Gly Ser Gly Leu Ser Val Ser Val Phe Gly Asn Trp Ser Asp Leu
130        135        140
Ala Leu Leu Met Gln Leu Lys Leu Arg Pro Leu Ser Leu Ser Gln Ala
145        150        155        160
His Ser Gly Cys Val Arg Phe Leu Leu Ser Leu Val Cys Ile His Pro
165        170        175
Leu His Val Gln Val Gly Ala Ala Lys
180        185
<210> 257
<211> 128

```

<212> PRT

<213> Homo sapiens

<400> 257

His Phe Leu Pro His Ile Leu Glu Leu Val Leu Phe Leu Ile Lys Ile
 1 5 10 15
 Asn Val Ile Phe Arg Gly Ala Ile Phe Cys Phe Gln Asp Phe Phe Lys
 20 25 30
 Glu Val Ile Leu Lys Ala Lys Phe Lys Glu Lys Glu Leu Val Ala Leu
 35 40 45
 Val Asp Pro Val Gly Ser Ser Phe Leu Cys Trp Ser Ile Phe Cys Ile
 50 55 60
 Pro Phe Glu Phe Ala Phe Leu Phe Asn Ile Phe Trp Tyr Ser Arg Phe
 65 70 75 80
 Leu Phe Phe Gly Thr Phe Val His Ile Asn Phe Leu Val Trp Arg Arg
 85 90 95
 Gly Ile Leu Ile Ala Asn Gly Thr Lys Val Tyr Arg Asp Ile Val Gln
 100 105 110
 Pro Leu Leu Phe Phe Leu Phe Leu His Ser Ile Leu Val Met Gly Asn
 115 120 125

<210> 258

<211> 168

<212> PRT

<213> Homo sapiens

<400> 258

Lys Gln Ser Tyr Ile Cys Ile Leu Phe Tyr Ile Tyr Phe Val Ile Phe
 1 5 10 15
 Leu Leu Ser Thr Val Ser Ser Leu Leu Pro Phe Leu Ile Glu Glu Phe
 20 25 30
 Asn Ala Cys Ile Cys Val Phe Ala Lys Lys Thr Pro Ser Ile Thr Cys
 35 40 45
 Ser Ile Tyr Glu Tyr Phe Trp Pro Leu Thr Gln Lys Val Leu Tyr Tyr
 50 55 60
 Arg Gln Lys Ser Thr Arg Lys Gln Ser Gly Thr Ser Ser Lys Arg Asp
 65 70 75 80
 Ser Ile Val Gly Lys Asn Thr Asp Pro Gly Gly Lys Leu Pro Gly Leu
 85 90 95
 Glu Ser Gln Leu Tyr Tyr Phe Gly Lys Thr Thr Tyr Leu Leu Tyr Leu
 100 105 110
 Phe Trp Tyr Pro Cys Leu Asn Gly Ser Asn Asn Asn Pro Leu Ile Ala
 115 120 125
 Leu Leu Gly Phe Asn Arg Ser Glu Asp Phe Arg Arg Ala His Asp Lys
 130 135 140
 Asn Tyr Ile Arg Val Thr Tyr Tyr Cys Tyr Pro Ile Cys His Ser Lys
 145 150 155 160

Leu Arg Asp Leu Gly Gln Val Thr
165

<210> 259
<211> 182
<212> PRT
<213> Homo sapiens

<400> 259

Leu Val Glu Trp Ala His Ser Ser Met Arg Pro Ile Phe His Leu Asn
1 5 10 15
Phe Leu Cys Leu Arg Asn Glu Leu Tyr Ser Asn Leu Cys Phe Leu Lys
20 25 30
Ile Asn Val Phe Leu Val Lys His Leu Val Ser Ser Gln Ile Leu Phe
35 40 45
Lys Lys Thr Thr Glu Asn Ser Glu Glu Gly Glu Thr Asp Ser Ala Asn
50 55 60
Ser Ile Ser Val Pro Arg Leu Asn Trp Glu Met Leu Leu Leu His Asp
65 70 75 80
Leu Gly Leu Ile Ile Cys Leu Gln Glu His Cys Phe Arg Val Val Trp
85 90 95
Tyr Ser Gly Arg Asn Gly Leu Trp Ser Glu Ile His Val Gln Ile Pro
100 105 110
Ser His Leu Pro Ser Leu Ile Leu Ser Phe Leu Ile Cys Lys Met Thr
115 120 125
Ile Ile Asn Thr Ile Ser Lys Ile Cys Gly Asp Asn Thr Ala Phe Thr
130 135 140
Ser Cys Cys Ile Leu Pro Ile Ser Ser Cys Arg Asp Arg Ile Phe His
145 150 155 160
Phe Ile Leu Ile Tyr Asn Tyr Val Ile Pro Phe Lys Asn His Pro Ser
165 170 175
Thr Phe Ser Ser Thr Arg
180

<210> 260
<211> 207
<212> PRT
<213> Homo sapiens

<400> 260

Cys Ser Leu Leu Asp Phe Leu Met Leu Val Gly Ala Leu Arg Lys Leu
1 5 10 15
Cys Thr Lys Leu Asp Pro Val Leu Gln Gly Ser Asp Leu Thr Glu His
20 25 30
Ser Ala Trp Gly Val Pro Leu Ile Trp Thr Trp Asn Ser Ile Ile Gln
35 40 45
Arg Pro Ser Leu Pro Cys Ser Leu Cys Val Thr Gly Ala Ala Glu Thr
50 55 60

Gln Val Leu Ser Ala Ser Ala Gly Leu Gln Pro Cys Leu Cys Leu Leu
 65 70 75 80
 Arg Ser Asp Ser Asn Cys Tyr Leu Trp Arg Trp Leu Phe Ile Gly Thr
 85 90 95
 Pro Phe Leu Cys Leu Thr Glu Ala Gln Cys Ser Lys Leu Glu Gly Leu
 100 105 110
 Cys Gln His Val Ser His Thr His Leu Leu Leu Phe Phe Ser Arg Val
 115 120 125
 Leu Gly His Leu Leu Leu His Ile Thr Thr Ser Ser Pro Pro Ala Gln
 130 135 140
 Leu Ala Leu Ser Pro Phe Pro Ile Tyr His Ala Val Leu Glu His Lys
 145 150 155 160
 Ala Leu Leu Cys Ile Pro Cys Val Tyr Phe Val Val Met Cys Cys Ile
 165 170 175
 Leu Lys Glu Leu Asn Leu Cys Pro Gly Ser Arg Lys Asn Ala Asp Gln
 180 185 190
 Leu Leu Ala Ile Asp Gly Phe Asn Ile Ser Tyr Asp Trp Phe Leu
 195 200 205
 <210> 261
 <211> 187
 <212> PRT
 <213> Homo sapiens

<400> 261

Gln Thr Lys Glu Glu Lys Gly Gln Val Lys His Thr Ile Gly Phe Thr
 1 5 10 15
 Val Asn Met Ser Lys Val Leu Leu Ile Ile His Phe Met Tyr Pro Arg
 20 25 30
 Leu Trp Lys Lys Phe Phe Phe His Leu Pro Ile Lys Asn Ile His Leu
 35 40 45
 Gly Ile Thr Thr Ser Trp Ile Leu Leu Asp Arg His Thr Thr Thr Leu
 50 55 60
 Thr Val Leu Pro Ser Ser Arg Arg Leu Ala Arg Lys Ala His His Pro
 65 70 75 80
 Leu Pro Gly Ser Lys Val Asp Ser Leu Ile Phe Cys Ile Asn Pro Thr
 85 90 95
 Pro Asp Ser Phe Ser Tyr Ser Leu Leu Pro Cys Leu Phe Ser Tyr Leu
 100 105 110
 Met Val Asn Val Phe Leu Ser Ser Cys Ile Thr Phe Tyr Ser Phe Leu
 115 120 125
 Glu His Ile Ile Ile Ile Asn Lys Lys Ser Lys Ile Ala Met Val Ala
 130 135 140
 Arg Ile Pro Ala Pro Leu Asp Pro Ser Thr Ser Ser Ser Pro Gly His
 145 150 155 160

Thr Trp Gln Arg Glu Ile Lys Val Leu Asp Gly Ile Lys Val Asn Gln
 165 170 175

Leu Thr Leu Lys Gly Glu Lys Glu Ser Arg Leu
 180 185

<210> 262
 <211> 149
 <212> PRT
 <213> Homo sapiens

<400> 262

Tyr Val Thr Ile Leu Leu Thr Val Leu Val Phe Leu Leu Arg Ser Leu
 1 5 10 15

Pro Phe Gly Ile Arg Trp Ala Leu Ser Thr Gly Ile His Leu Asp Leu
 20 25 30

Glu Val Ile Phe Cys His Val His Leu Val Ser Ile Phe Leu Ser Pro
 35 40 45

Leu Asn Gly Ser Ala Asn Pro Val Ile Tyr Phe Phe Val Gly Ser Phe
 50 55 60

Arg Gln Arg Gln Asn Arg Gln Asn Leu Lys Leu Val Leu Gln Arg Ala
 65 70 75 80

Leu Gln Asp Met Pro Glu Val Lys Val Glu Gly Gly Phe Leu Arg Glu
 85 90 95

Pro Trp Ser Cys Arg Glu Ala Asp Ser Gly Ser Glu Glu Glu Pro Leu
 100 105 110

Pro Cys Gln Ser Asp Gly Thr Leu Arg Ala Ile Leu Pro Cys His Ala
 115 120 125

Gln Leu His Ala Phe Ser Cys Cys Ala Ser Glu Met Ser Gln Arg Leu
 130 135 140

Lys Val Val Glu Met
 145

<210> 263
 <211> 207
 <212> PRT
 <213> Homo sapiens

<400> 263

His Trp Arg Ser Leu Val Thr Trp Ala Glu Tyr Leu Glu Pro Arg Ile
 1 5 10 15

Ser Ser Ser Met Val Asp Gln Leu Cys Asp Gly Val Met Arg Trp Gly
 20 25 30

Arg Arg Val Trp His His Ala Thr Gly Phe Pro Pro Lys Leu Ser Thr
 35 40 45

Pro Arg Ser Thr Ser Ala Ser Gly Met Ser Ala Gly Ser Gln Arg Leu
 50 55 60

Trp Arg Arg Gly Ser Ser His Ala Val Gln Ser Phe Asn Pro Leu Gln
 65 70 75 80

Ser Ser Leu Ala Arg Glu Gln Gln Ser Leu Leu Glu Arg Asn Tyr His
 85 90 95
 Ser Lys Gln Glu Phe Arg Pro His Leu Ser Glu Asp His Val Glu Val
 100 105 110
 His Leu Ala Gly Lys Val Ala Ser Gly Cys Gly Leu Phe Asn Tyr Thr
 115 120 125
 Leu Leu Phe Thr Leu Phe Thr Ile Val Cys Lys Val Gln His Leu Gln
 130 135 140
 Ala Arg Asn Thr Gly Leu Pro His Ser Gly Trp Leu Gly Leu Met Lys
 145 150 155 160
 Ala Thr Lys Gln Cys Ala Gln Ser Lys Gln Arg Leu Pro Leu Ala Gly
 165 170 175
 Ala His Ser Pro Arg Glu Gly Ile Ser Phe Ser Leu Asp Leu Gly Ala
 180 185 190
 Lys Ala Thr His Gly Ser Asp Gln Thr Thr Cys Ser Pro His Leu
 195 200 205
 <210> 264
 <211> 204
 <212> PRT
 <213> Homo sapiens
 <400> 264
 Gly Ala Ser Ser Gln Tyr Gly Asn Glu Asp Gly Val Asn Leu Phe Pro
 1 5 10 15
 Leu Met Ser Pro Pro Leu Tyr Thr Asn Leu Leu Lys Pro Thr Gly Lys
 20 25 30
 Leu Arg Leu Gly Asn Lys Asn Ile Lys Cys Tyr Val Gln Ile Leu Lys
 35 40 45
 Trp Asn Leu Lys Leu Leu Val Leu Gln Leu Phe Leu Lys Ile Pro Thr
 50 55 60
 Leu Ser Arg Ser Met Ser Phe Arg Glu Arg Thr Tyr Val Ala Arg Glu
 65 70 75 80
 Lys Ser Lys Glu Ser Met Asn Pro Val Leu Leu Ser Ile Leu Gln Cys
 85 90 95
 Trp Arg Pro Phe Ser Ile Phe His Ser Leu Gly Gln Ser Phe Asn Thr
 100 105 110
 His Leu Leu Lys Ala Ile Tyr Ile Arg Pro Cys Tyr Ser Lys Gly Thr
 115 120 125
 Val Gly Gly Glu Glu Arg Gln Asp Pro Thr Met Glu Leu Lys Ser Ser
 130 135 140
 Leu Asp Arg Phe Pro Phe Pro Ser Gly Gln Ser Lys Pro Asn Asp Thr
 145 150 155 160
 Thr Val Ser Ser Phe Pro Glu Gln Arg Asp Val Glu Asn Tyr Leu Phe
 165 170 175
 Thr Ile Val Arg Arg Arg Gln Gly Trp Asn Phe Phe Gln Asn Lys Leu

180 185 190
 Phe Phe Phe Val Lys Gln Gly Lys Ile Leu Leu Leu
 195 200
 <210> 265
 <211> 186
 <212> PRT
 <213> Homo sapiens
 <400> 265
 Ile Ser Val Thr Asp Leu Ile Gly Gly Lys Trp Ile Phe Gly His Phe
 1 5 10 15
 Phe Cys Asn Val Phe Ser Val Asn Val Met Cys Cys Thr Ala Trp Ile
 20 25 30
 Leu Thr Leu Tyr Val Ile Ser Ile Asp Arg Tyr Leu Gly Ile Met Lys
 35 40 45
 Pro Leu Thr Tyr Pro Met Arg Gln Lys Gly Lys Cys Met Thr Lys Met
 50 55 60
 Ile Leu Ser Val Cys Leu Leu Ser Ala Phe Val Thr Leu Pro Thr Ile
 65 70 75 80
 Phe Gly Arg Ala Gln Asn Val Asn Asp Asp Lys Val Cys Leu Val Ser
 85 90 95
 Gln Asp Phe Gly Tyr Thr Ile Tyr Ser Thr Ala Leu Ala Ser Ser Pro
 100 105 110
 Cys Ala Ser Cys Phe Ser Cys Thr Asn Arg Phe Thr Arg Pro Pro Gly
 115 120 125
 Lys Ala Arg Pro Asn Thr Gly Tyr Leu Ala Ser Leu Glu Trp Ser Gln
 130 135 140
 Thr Ala Val Val Thr Leu Asn Gly Thr Val Lys Phe Gln Glu Val Glu
 145 150 155 160
 Glu Cys Ala Lys Leu Ser Arg Leu Leu Lys His Glu Arg Lys Lys Tyr
 165 170 175
 Leu His Leu Ala Glu Thr Glu Ser Ser Asp
 180 185
 <210> 266
 <211> 184
 <212> PRT
 <213> Homo sapiens
 <400> 266
 Phe Thr Val Ile Asn Val Cys Ser Cys Thr Cys Glu Val Lys Ser Phe
 1 5 10 15
 Ser Leu Leu Ser Asn Ser Tyr Val Pro Asn Ile Phe Ser Lys Phe Leu
 20 25 30
 Lys Thr Tyr Asn Gly Glu Lys Asn Asn Pro Phe Ser Ser Pro Ala Ser
 35 40 45
 Leu Met Lys Asn Ser His Phe Ser Leu Phe Leu Leu Phe Leu Leu Val

50 55 60
 Val Phe His Ile Ser Cys Leu Ser Ala Val Ser Cys Phe Met Gln Phe
 65 70 75 80
 Arg Pro Tyr Leu Leu Thr Ser Leu Ser Phe Gln Tyr Lys Asp Ser Cys
 85 90 95
 Ile Phe Ser Phe Asn Phe Thr Phe Leu Asn Ser Pro Phe Pro Phe Cys
 100 105 110
 Asp Pro Gly Ile Ser Gly Val Leu Phe Phe Phe Ile Leu Pro Asp Phe
 115 120 125
 Ile Tyr Ile Cys Val Tyr Ser Phe Leu Leu Phe Phe Lys Leu Lys Thr
 130 135 140
 Cys Leu Ser Ser Lys Ser Gly Ser Phe Phe Phe Ser Trp Arg Pro Leu
 145 150 155 160
 Ser Gln Asn Pro Leu Ser Phe Cys Phe Asn Glu Asp Tyr Met Leu Ser
 165 170 175
 Leu Trp Leu Pro Ser Cys Asn Thr
 180
 <210> 267
 <211> 201
 <212> PRT
 <213> Homo sapiens
 <400> 267
 Phe Pro Ser Leu Lys Asn Met His Phe Ser Val Pro Leu Arg Cys His
 1 5 10 15
 Thr Ile Ile Ser Val Gln Lys Arg Val Asn Thr Ala Asp Pro Arg Leu
 20 25 30
 Leu Leu Leu Lys Cys Pro Ala Cys Lys Ala Gly Ser Trp Leu Val Phe
 35 40 45
 Gly Val Leu Asp Phe Glu Lys Leu Pro Thr Ile Pro Ser Thr Gly Leu
 50 55 60
 Cys Lys Tyr Gly Leu Tyr Ile Pro Ala Phe Leu Leu Glu Leu Glu Phe
 65 70 75 80
 Ser Lys Tyr Glu Ala Lys Arg Ala Tyr Val Thr Ser Pro Gln Pro Trp
 85 90 95
 Ala Leu Ser His Gly Thr Ser Leu Ala Gly Ser Val Ser His Val Leu
 100 105 110
 Ser Gln Phe Leu Ala Glu Arg Ile Lys His Ile Leu Cys Asn Phe Thr
 115 120 125
 Gly Lys Arg Ile Leu Glu Ala Val Pro Gly Phe Phe Arg Leu Phe Leu
 130 135 140
 Met His Leu Phe Leu Leu Ile Met Leu Arg Tyr Pro Ser Val Asn
 145 150 155 160
 Lys Ser Leu Ile Gln Leu Tyr Ala Lys Ser Tyr Glu Ser Gln Asn Arg
 165 170 175

Gly Ile Ile Leu Gly Arg Pro Asp Thr Thr Lys Ile Asn Leu Lys Leu
 180 185 190
 Asn Ser Ser Pro Thr Ser Leu Ser Pro
 195 200
 <210> 268
 <211> 321
 <212> PRT
 <213> Homo sapiens
 <400> 268
 Met Asn Gln Thr Leu Asn Ser Ser Gly Thr Val Glu Ser Ala Leu Asn
 1 5 10 15
 Tyr Ser Arg Gly Ser Thr Val His Thr Ala Tyr Leu Val Leu Ser Ser
 20 25 30
 Leu Ala Met Phe Thr Cys Leu Cys Gly Met Ala Gly Asn Ser Met Val
 35 40 45
 Ile Trp Leu Leu Gly Phe Arg Met His Arg Asn Pro Phe Cys Ile Tyr
 50 55 60
 Ile Leu Asn Leu Ala Ala Ala Asp Leu Leu Phe Leu Phe Ser Met Ala
 65 70 75 80
 Ser Thr Leu Ser Leu Glu Thr Gln Pro Leu Val Asn Thr Thr Asp Lys
 85 90 95
 Val His Glu Leu Met Lys Arg Leu Met Tyr Phe Ala Tyr Thr Val Gly
 100 105 110
 Leu Ser Leu Leu Thr Ala Ile Ser Thr Gln Arg Cys Leu Ser Val Leu
 115 120 125
 Phe Pro Ile Trp Phe Lys Cys His Arg Pro Arg His Leu Ser Ala Trp
 130 135 140
 Val Cys Gly Leu Leu Trp Thr Leu Cys Leu Leu Met Asn Gly Leu Thr
 145 150 155 160
 Ser Ser Phe Cys Ser Lys Phe Leu Lys Phe Asn Glu Asp Arg Cys Phe
 165 170 175
 Arg Val Asp Met Val Gln Ala Ala Leu Ile Met Gly Val Leu Thr Pro
 180 185 190
 Val Met Thr Leu Ser Ser Leu Thr Leu Phe Val Trp Val Arg Arg Ser
 195 200 205
 Ser Gln Gln Trp Arg Arg Gln Pro Thr Arg Leu Phe Val Val Val Leu
 210 215 220
 Ala Ser Val Leu Val Phe Leu Ile Cys Ser Leu Pro Leu Ser Ile Tyr
 225 230 235 240
 Trp Phe Val Leu Tyr Trp Leu Ser Leu Pro Pro Glu Met Gln Val Leu
 245 250 255
 Cys Phe Ser Leu Ser Arg Leu Ser Ser Ser Val Ser Ser Ser Ala Asn
 260 265 270

Pro Val Ile Tyr Phe Leu Val Gly Ser Arg Arg Ser His Arg Leu Pro
 275 280 285

Thr Arg Ser Leu Gly Thr Val Leu Gln Gln Ala Leu Arg Glu Glu Pro
 290 295 300

Glu Leu Glu Gly Gly Glu Thr Pro Thr Val Gly Thr Asn Glu Met Gly
 305 310 315 320

Ala

<210> 269
 <211> 9
 <212> PRT
 <213> Artificial

<220>
 <223> Novel Sequence

<400> 269

Ala Pro Arg Thr Pro Gly Gly Arg Arg
 1 5

<210> 270
 <211> 20
 <212> DNA
 <213> Artificial

<220>
 <223> Novel Sequence

<400> 270
 ctgtctctct gtcctcctcc

20

<210> 271
 <211> 22
 <212> DNA
 <213> Artificial

<220>
 <223> Novel Sequence

<400> 271
 gcaccgatct tcattgaatt tc

22

<210> 272
 <211> 33
 <212> DNA
 <213> Artificial

<220>
 <223> Novel Sequence

<400> 272
 gatcaagctt ggatgaacca gactttgaat agc

33

<210> 273
 <211> 31
 <212> DNA
 <213> Artificial

00100US1.ST25.txt

<220>

<223> Novel Sequence

<400> 273

gatcctcgag ctcaagcccc catctcattg g

31